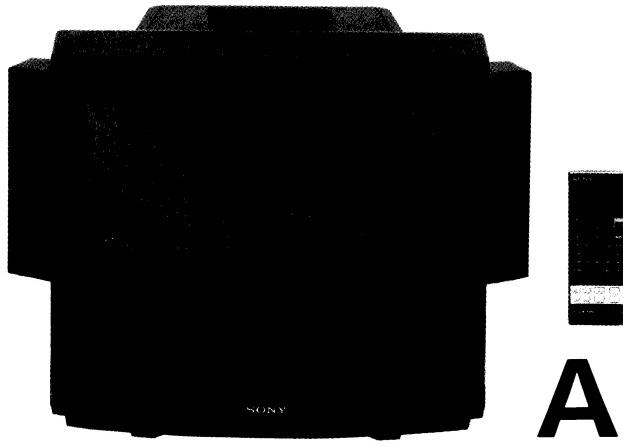


KV-D2921D
RM-689

SERVICE MANUAL

AEP Model

Chassis No. SCC-C96C-A



AE-1A CHASSIS

Note : The service manual for RM-689 has been issued separately.

MODELS OF THE SAME SERIES

KV-D2910B

KV-E2911D

KV-E2511D

SPECIFICATIONS

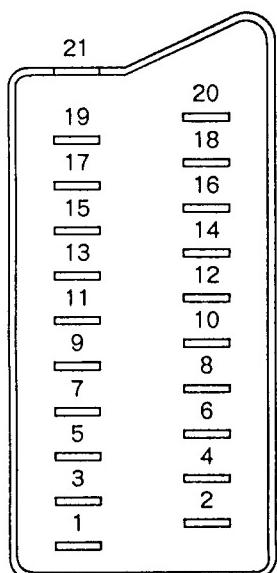
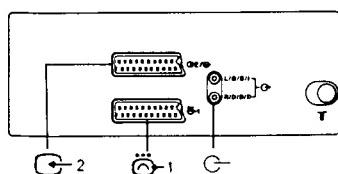
Television system	B/G/H
Color system	PAL, SECAM, NTSC 3.58, NTSC 4.43 (selected automatically)
Channel coverage	See « RECEIVABLE CHANNELS AND CHANNEL DISPLAYS »
Picture tube	Trinitron tube
	Approx. 72.4 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110-degree deflection
Inputs	— 1 21-pin connector: CENELEC standard including RGB input. — 2 21-pin connector: including S video input — 3 4-pin DIN S video input connector Y: 1 Vp – p ± 3 dB 75 ohm C: 0.3 Vp – p ± 3dB 75 ohms Audio input jacks: phono jack
Outputs	21-pin connector: CENELEC standard Headphones jack: stereo minijack External speaker terminals: 2-pin DIN Audio output jacks: phono jack (output dependent upon TV settings)
Sound output	30 W + 30 W (music power)
Power consumption	118 Wh
Dimensions not incl. speakers	Approx. 656 x 553.5 x 516.6 mm (w/h/d)
Dimensions incl. speakers	Approx. 812.4 x 553.5 x 516.6 mm
Weight not incl. speakers	Approx. 48 kg
Weight incl. speakers	Approx. 55 kg
Supplied accessories	RM-689 Remote Commander (1) IEC designation R 6 batteries (2)
	Detachable speakers (1 pair) Speaker cord (2)

Design and specifications are subject to change without notice.

TRINITRON® COLOUR TV
SONY®



21 pin connector (Pin 1, Pin 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5~12 V) : Part mode Low state (0~2 V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V±3dB, 75ohms, positive
	-	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1~3 V) Low state (0~0.4 V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
20	○	-	Video input	1V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
	-	○	Video input/Y (S signal)	1V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected ● unconnected (open)

* at 20 Hz~20 kHz

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

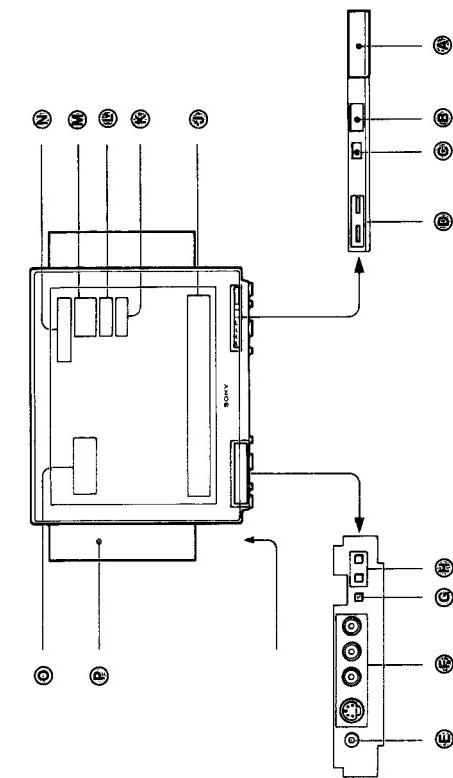
CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THE SERVICE MANUAL PUBLISHED BY SONY.

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SECTION 1 GENERAL

1.1. FUNCTION OF CONTROLS



ON THE SET

① Power Switch ①

Use it to switch the set on and off. When you switch the set on, the programme number of the station tuned in will be indicated in the on-screen display ⑪ for some seconds. In case of short breaks of operation, you can switch the set on and off using the Remote Commander (See «CONTROLS ON THE REMOTE COMMANDER»).

② Remote control detector

(See «CONTROLS ON THE REMOTE COMMANDER»).

③ Standby/Response indicator

This indicator lights up when the TV set is in standby mode and it flashes each time the set receives signals from the Remote Commander.

④ Stereo A/B indicators ⑩

During bilingual programmes one of the two indicators lights up, depending upon the selected channel A or B. When stereo programmes are broadcast both indicators light up. (See «CONTROLS ON THE REMOTE COMMANDER»).

⑤ Jacks and control panel

The jacks and the control panel are situated behind a cover. Please press the arrow marking on the cover to open it.

⑥ Headphones jack (stereo minijack)

Connect only stereo headphones.

⑦ Headphones jack (stereo minijack)

Connect only stereo headphones.

⑧ Headphones jack (stereo minijack)

Use this button to select either the channel select mode, volume adjustment ⑦ or the ⑩ input mode.

⑨ Adjustment buttons +/-

Select at first the item to be adjusted using the Mode select button ⑮ (channel select mode), ⑥ (volume) or ⑩ (input mode), then adjust the item by pressing the + or - button.

You can also use these buttons to reset the picture and sound adjustments to the factory-set levels. For this purpose press both buttons simultaneously.

On-screen display

When you press button ② on the Remote Commander, the following information will be indicated on the screen:

① Picture and sound adjustment items:

② contrast, ③ colour, ④ brightness, ⑤ sharpness, ⑥ bass, ⑦ treble or ⑧ balance and the respective levels, as well as ⑨ mute, ⑩ reset, ⑪ space sound, ⑫ loudness and ⑬ NICAM indications, when the respective buttons are pressed.

When you press button ⑨ on the Remote Commander, the following information will be indicated on the screen:

⑩ TV-System: I

⑪ Channel number

⑫ Programme number or input mode;

⑬ 1, ⑭ 2, ⑮ 3 or ⑯ 3;

⑭ Indication of the station name

⑮ AV output indication: ⑯ 1, ⑯ 2, ⑯ 3 or ⑯ 4 (see «CONTROLS ON THE REMOTE COMMANDER»).

Connectors on the rear

⑯ Terminals for the right and left speakers

⑰ Terminals on the speakers

⑱ Euro-AV-connector 21-pin ⑯/⑯-

For connecting a VTR, 8 mm video camera recorder, a video disc player or in general devices with an S-video-output.

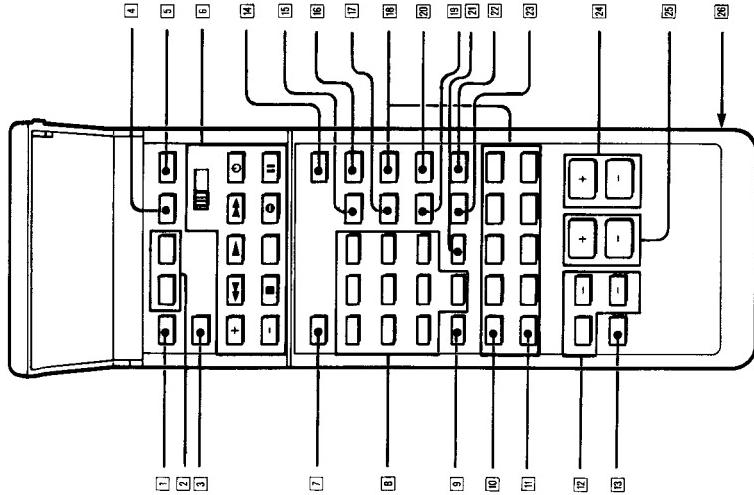
⑲ Euro-AV-connector 21-pin ⑯/-1

For connecting a VTR, a video disc player, a computer ecc.,

⑳ Audio-output-jacks (phono jacks) ⑯

For connecting audio equipment, e.g. an amplifier so that the sound will be output at the audio equipment. In this case the volume is adjustable on the TV set.

⑳ Aerial terminal ⑯

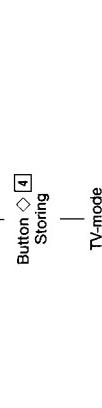
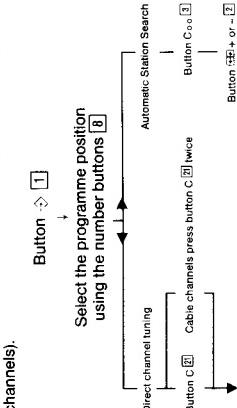


- [4] **Store button:** Used for storing channels. See "TO PRESET CHANNELS".
- [5] **TV-system-select-button**
This button has no function;
- [6] **Video selector and video operation buttons**
Used for operating Sony video equipment. For details see "CONNECTING OTHER EQUIPMENT".
- [7] **Mute button**
By pressing this button the sound of the set will be switched off and by pressing it once more the sound will be restored.
- [8] **Number buttons**
 - a) Used to select programme positions or to input channel numbers (in the preset mode).
 - b) If the set is in the standby mode, press one of the number buttons to switch it on.
 - c) After pressing the Output select button the buttons 1-3 can be used to select the different Output connectors.
- [9] **-/- Button**
In case of two digit numbers, press first this button and then the two respective number buttons [8].
- [10] **② Button for On-screen display**
By pressing this button information about the station tuned-in will be indicated on the screen. The indications will disappear after some seconds with the exception of the programme number, which will stay on the screen until the button is pressed once again.
- [11] **Time button ③**
In TV-mode: If teletext service is broadcast on the selected channel, press this button to display the current time on the screen and once again to make it disappear.
- [12] **+/- Buttons for picture and sound adjustments**
 - a) **TV-mode:**
The picture and sound adjustments are stored as standard values. You have, however, the possibility to change them to your individual liking. Press the button repeatedly until the required item is indicated in the on-screen display: ① contrast, ② colour, ③ brightness, ④ hue (only for NTSC colour system), ⑤ sharpness, ⑥ bass, ⑦ treble or ⑧ balance. You can adjust the settings by pressing the + or - button.
 - b) **Preset-mode:** Use these buttons to name a station. See "TO PRESET CHANNELS".
- ON THE REMOTE COMMANDER**
On the set there is a Remote Control detector (B), which receives the signals of the Remote Commander.
- [1] **Preset-button** Used for selecting the Preset mode. See "TO PRESET CHANNELS".
- [2] **Tuning +/- buttons**
 - a) Preset mode: Used for tuning in stations in the Automatic Station Search. See "TO PRESET CHANNELS".
 - b) TV-mode: Used for fine-tuning a station. See "ADDITIONAL FUNCTIONS".
- [3] **C. button (Clear)**
Used for clearing programme positions, so that the position will be skipped when the PROGR +/- buttons [24] are pressed. See "TO PRESET CHANNELS".
- [4] **Input>Select-Button**
Press this button to select the audio- or video-signals input at the various input connectors. With each pressing of the button a different connector is selected. The following indications will appear sequentially:
 1 → (RGB) → → → → → →
- [5] **TV-Button**
When pressing this button the set returns from standby, video input- or teletext mode to the TV-mode.
- [6] **Output>Select-Button**
Press this button to select the audio- or video signals to be output at the connector. First press this button, then select the desired signal source using the number buttons [8] (either 1, 2 or 3) or the TV-button [5] (if the signals which are on the screen are to be output).
- [7] **Teletext operation buttons**
These buttons are used for teletext operation. See "VIEWING TELETEXT".
- [8] **Loudness button**
By pressing this button the high and low tones will be emphasized. Press the button again to restore the normal sound. The indications on the screen will be or .
- [9] **A/B button**
To select the channel of bilingual programmes. Usually the synchronized version is broadcast on channel A and the original sound is broadcast on channel B. During NICAM broadcast, use to select the sound, which you would like to hear (See "ADDITIONAL FUNCTIONS"). In the video input mode (Euro-AV-connectors) this possibility of selecting channels also exists.
- [10] **C (Channel select) button**
Use this button for direct channel tuning in the TV-mode. See "ADDITIONAL FUNCTIONS".
- [11] **This button has no function on this set.**
- [12] **Space sound button**
Press this button to obtain special acoustic effects. Press it again to restore the normal sound. The indications on the screen will be or .
- [13] **PROGR +/- buttons**
TV-mode: Use these buttons to scan the available programmes up- or downwards.
Preset mode: Use these buttons to scan the available channels up or downwards.
- [14] **Standby-button**
Press this button to switch the set into standby-mode. You can switch it on again by pressing the TV-button [5] or one of the number buttons [8]. To return to the teletext mode, press the button. There will be a slight delay before the picture is restored.
- Note**
Use the Standby-button [14] only when switching the set off for a short period of time. If the set will not be used for a longer span of time, switch it off by using the Power switch (A).

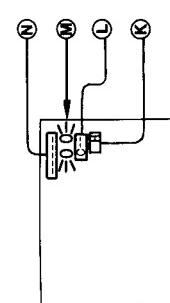
1-2. TO PRESET CHANNELS

Use the buttons on the Remote Commander for presetting. In total there are 60 programme positions at your disposal for storing channels. There are two different ways of tuning in channels:

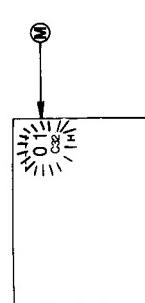
- 1. Direct Channel Tuning**
You know the channel number of a station and can input it directly.
- 2. Automatic Station Search**
The set searches automatically for stations (including cable channels).



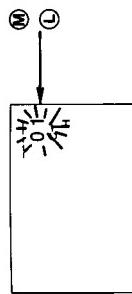
- 1. Direct Channel Tuning**
You are now in the preset mode of the set. The programme number in the on-screen display (N) starts blinking.



- 2. With the buttons PROGR +/- [2]** or the number buttons [8] you can select the programme position. In case of two-digit numbers, press first the button +/- [8] and then the two-number buttons.



- 3. Press button C [2].** The indication "Cxx" and the channel number start blinking in the display (L). Select the channel number with two digits (e.g. 04) using the number buttons [8].



- 4. Press the Preset button** \diamond [1]. You are now in the preset mode of the set. The programme number in the on-screen display (N) starts blinking.
- 5. If you have found the desired station, press button** \diamond [1]. Now the selected station is stored and you are back in the TV-mode.
- 6. If you want to store further stations, repeat the steps 1-5.**

- 1. Skipping of unused programme positions**
Using button C \diamond [3] you have the possibility to have unused programme positions (e.g. without a stored station) skipped, when pressing the buttons PROGR +/- [2] on the Remote Commander.

- 1. Press button** \diamond [1]. You are now in the preset mode of the set.

- 2. Use the buttons PROGR +/- [2]** to select the programme position, which you want to have skipped.

- 3. Press button C \diamond [3].**

- 4. Press button** \diamond [1] to store the cleared programme position and to return to the TV-mode.

The skipped programme positions still appear when you press the number buttons [8] on the Remote commander.

- If you want to name a station
After presetting the stations you have the possibility to name them. The selected name will appear in the on-screen display (N).

- 1. Press the preset button** \diamond [1].
- 2. Press the button** \diamond [2]. The first column of the station name starts blinking. Press either button + or - [2] and select the desired character (number or letter, 0-9, A-Z, - or a blank column).

- 3. Press button** \diamond [2] again. Now the second column starts blinking and you can select the second character. In this way five characters can be selected.
- 4. Press button** \diamond [4] to store the station name.

- 1. If you want to store further channels, repeat the steps 1 to 4.**
- 2. Automatic Station Search**

- 1. Press button** \diamond [1]. You are now in the preset mode of the set. The programme number in the on-screen display (N) starts blinking.
- 2. With the PROGR buttons +/- [2] or the number buttons [8] you can select the programme position. In case of two-digit numbers, press first button +/- [8] and then the two-number buttons.**
- 3. If there is already a stored station on the selected programme position, press button C \diamond [3].**
- 4. Press one of the tuning buttons +/- [2] to start the station search. The search will be interrupted as soon as a station is tuned in. Press the tuning buttons repeatedly until you find the desired station.**

- 5. If you have found the desired station, press button** \diamond [1]. Now the selected station is stored and you are back in the TV-mode.
- 6. If you want to store further stations, repeat the steps 1-5.**

Notes

- If you press the preset button \diamond [1] instead of button \diamond [1] the set will return to the TV-mode without storing the channels.
- If you press a wrong programme or a channel number, an "xx" will be displayed on the screen.
- When pressing two number buttons, the second number button should be pressed within 5 seconds after the first one, otherwise the operation will be cancelled.

1-3. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

- 1 Select the TV channel for the desired teletext service.
When the signal is weak, teletext errors often occur.
- 2 Press $\text{[}\text{PAGE +}\text{]}$ (TEXT/MIX) to display the teletext service.
- 3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then, re-enter the correct page number.
The requested teletext page is displayed.

To request the index page

Press $\text{[}\text{INDEX}\text{]}$.
If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page

Press $\text{[}\text{PAGE +}\text{]}$ or $\text{[}\text{PAGE -}\text{]}$.

To superimpose the teletext display on the picture

Press $\text{[}\text{PAGE}\text{]}$ twice from the TV mode.

To suppress the teletext display so that the TV picture is displayed

Press $\text{[}\text{PAGE}\text{]}$ again to return to the TEXT display.
This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page from being updated/changed
The HOLD symbol appears on the screen.
To resume normal teletext reception, press $\text{[}\text{PAGE}\text{]}$ (TEXT/MIX).

To enlarge the teletext display

Press $\text{[}\text{PAGE}\text{]}$ once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz
Press $\text{[}\text{REVEAL}\text{]}$.
Press again to conceal the answers.

To watch the TV programme while waiting for a requested page to be displayed
1 Request the new page.

FASTEXT Operation
FASTEXT Teletext enables you to access pages quickly and conveniently with one key operation.
When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. Each coloured prompt relates to the coloured keys on the Remote Commander. Pressing on of these will select the page described by the prompt.

1-4. CONNECTING OTHER EQUIPMENT

To view the input picture

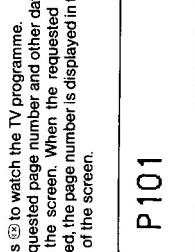
Press the $\text{[}\text{S}\text{]}$ button repeatedly until the desired input signal indication appears on the screen.

To return to the TV mode, press TV on the Remote Commander.

The teletext service can be displayed directly from the standby mode by pressing $\text{[}\text{S}\text{]}$ (TEXT/MIX).

To receive the teletext service of a different TV channel

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press $\text{[}\text{S}\text{]}$ (TEXT/MIX).



2 Press $\text{[}\text{S}\text{]}$ to watch the TV programme.

The requested page number and other data appear at the top of the screen. When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.



3 To have a requested page displayed at a pre-determined time

- 1 Request a time coded page (e.g. alarm page).
Press $\text{[}\text{TP ON}\text{]}$.
"T * * * * " will appear at the bottom of the screen.
- 2 Press $\text{[}\text{S}\text{]}$ (TP OFF).



- 3 Enter your request time with the number buttons, using four digits. For example, 0730.



4 To watch the TV programme until the requested time, press $\text{[}\text{TP CL}\text{]}$.

At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press $\text{[}\text{S}\text{]}$.
To cancel the request, first ensure that the teletext page is displayed, then press $\text{[}\text{TP OFF}\text{]}$.

Selection may also be made by entering the three digit page number in the normal way.
Correct FASTEXT operation relies on the necessary signals being transmitted by the Broadcasting Authorities. It is possible that some Broadcasters will not support this transmission.
If FASTEXT is not transmitted, the decoder will operate as outlined above.

To operate a Sony video equipment

The video operation buttons $\text{[}\text{1}\text{]}$ to $\text{[}\text{4}\text{]}$ on the Remote Commander can operate the VTRs and video disc players manufactured by Sony.

1. Switch the video selector to the desired position.

- VIDEO 1:** to operate Sony Betamax VTR and SLV 202 VHS.
VIDEO 2: to operate Sony 80 VTR.
VIDEO 3: to operate Sony VHS VTR.
MDP: to operate Sony video disc player including a multi disc player.

2. Press the operation button(s) to start operation. PROG +/- : to select the desired programme on the VTR.

- $\text{[}\text{1}\text{]}$: to rewind the tape or to rapidly go back to the desired position on the disc.

- $\text{[}\text{2}\text{]}$: to start playback

- $\text{[}\text{3}\text{]}$: to advance the tape or the disc rapidly to the desired position.

- $\text{[}\text{4}\text{]}$: to stop the tape or the disc, or to release the pause mode

- $\text{[}\text{5}\text{]}$: to start recording on the VTR

- $\text{[}\text{6}\text{]}$: Be sure to press this button and the one on the left simultaneously

3 To select the signal to be output from the $\text{[}\text{3/2/E-}$ connector

- Press the $\text{[}\text{S}\text{]}$ -button $\text{[}\text{7}\text{]}$, then 1, 2, 3 or the TV-button $\text{[}\text{8}\text{]}$ while mode select $\text{[P} \rightarrow \text{L} \rightarrow \text{G}\text{]}$ button $\text{[}\text{9}\text{]}$, then press $\text{[}\text{+/-}\text{]}$.

4 To return to the TV mode, press the TV-button.

1 To select the signal to be output from the $\text{[}\text{3/2/E-}$ connector.

- Press the $\text{[}\text{S}\text{]}$ -button $\text{[}\text{7}\text{]}$, then 1, 2, 3 or the TV-button $\text{[}\text{8}\text{]}$ while $\text{[}\text{9}\text{]}$ is displayed, so that one of the following indications is displayed:

- $\text{[}\text{1}\text{]}$: The audio and video signal input through the $\text{[}\text{3}\text{]}$ connector is output from the $\text{[}\text{2}\text{]}$ connector.

- $\text{[}\text{2}\text{]}$: The audio and video signal input through the $\text{[}\text{2}\text{]}$ connector is output from the $\text{[}\text{3}\text{]}$ connector.

- $\text{[}\text{3}\text{]}$: The audio and video signal input through the $\text{[}\text{3}\text{]}$ connector is output from the $\text{[}\text{2}\text{]}$ connector.

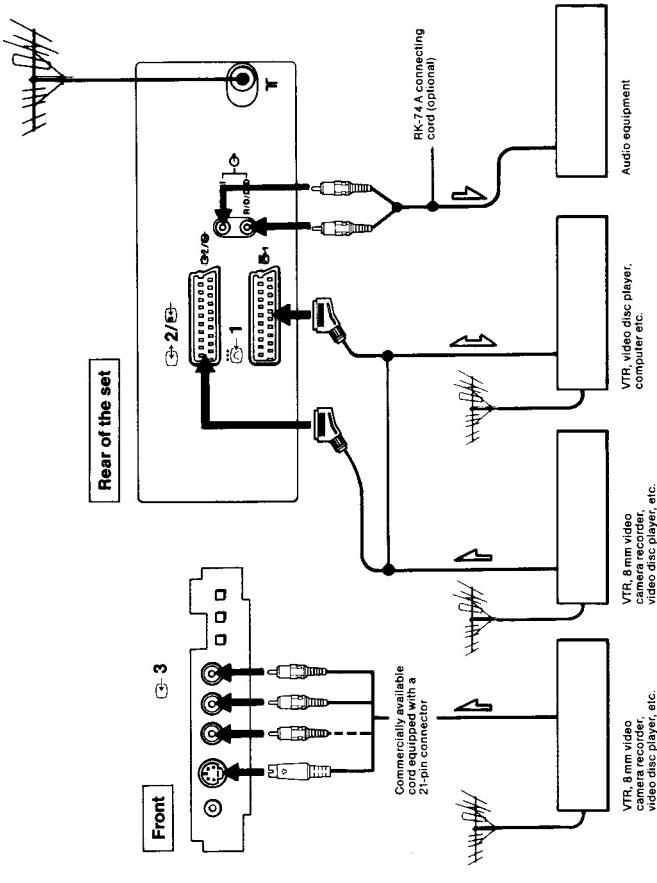
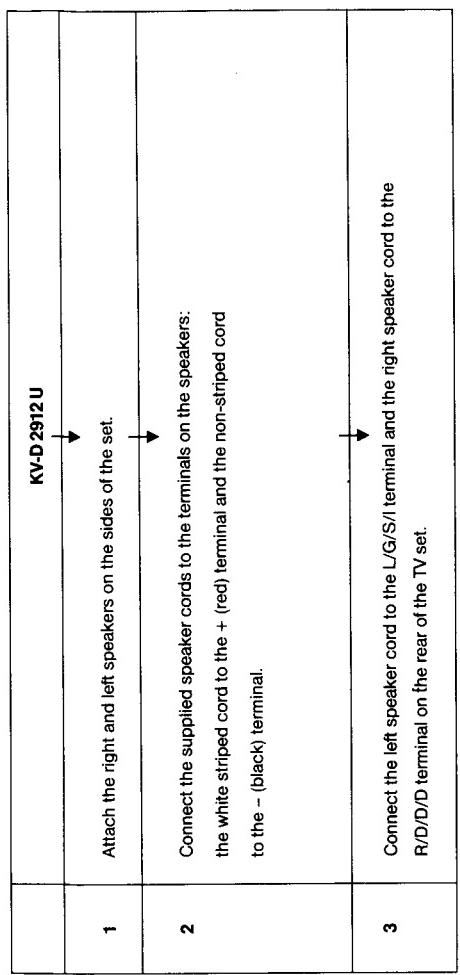
- $\text{[}\text{4}\text{]}$: The audio and video signal input through the $\text{[}\text{2}\text{]}$ connector is output from the $\text{[}\text{3}\text{]}$ connector.

The indication will disappear after a few seconds.

Note

The TV-signal is always output at the EURO-AV connector $\text{[}\text{3}\text{]}$.

1-5. HOW TO ATTACH THE SPEAKERS

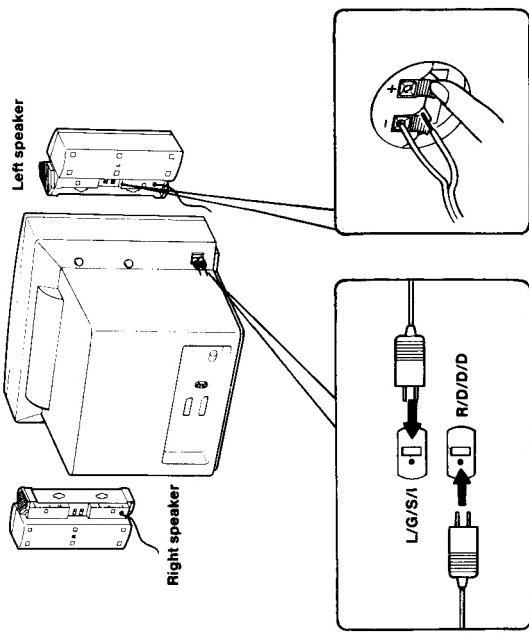


S Video input (Y/C input) Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV. Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality (especially in luminance). This set is equipped with two S video input jacks through which these separated signals can be input directly. Connect one of the two S video output jacks on the VTR to the S video input on this set.

- * Connect the S video output of the VTR, etc. here.
 ** To connect S video connectors (4-pin DIN), use an optional YC-15/YC-15EV connecting cable.

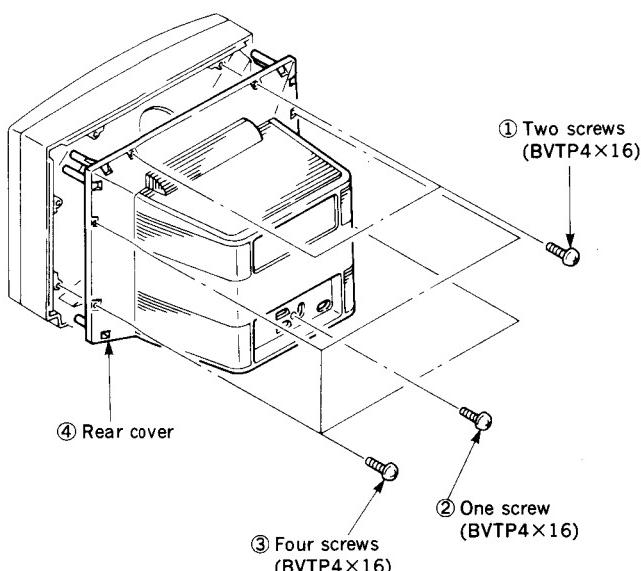
Notes

- It is also possible to connect a VTR using the terminal. In this case, connect the aerial to the aerial terminal of the VTR.
- Move the VTR away from the TV if the picture or the sound is distorted.
- Computers which have RGB output only can be connected to the input connector.

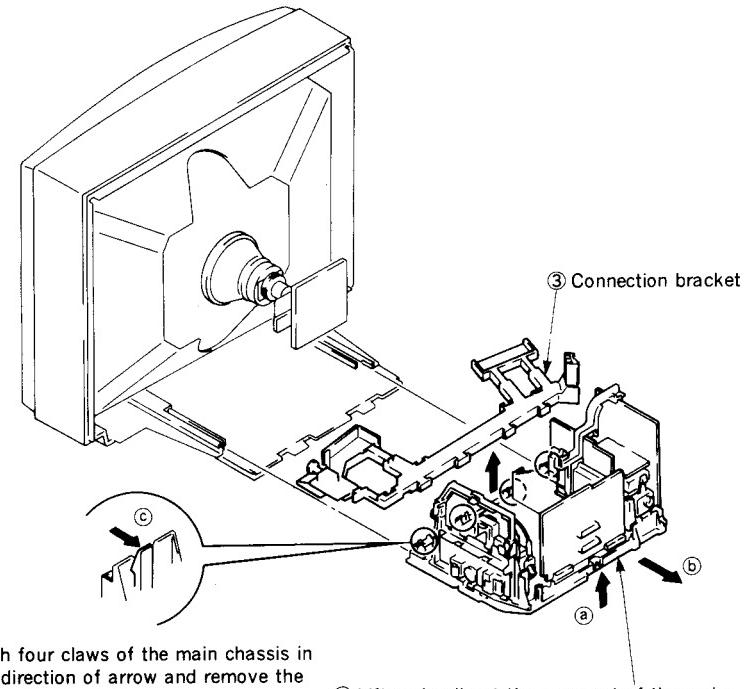


SECTION 2 DISASSEMBLY

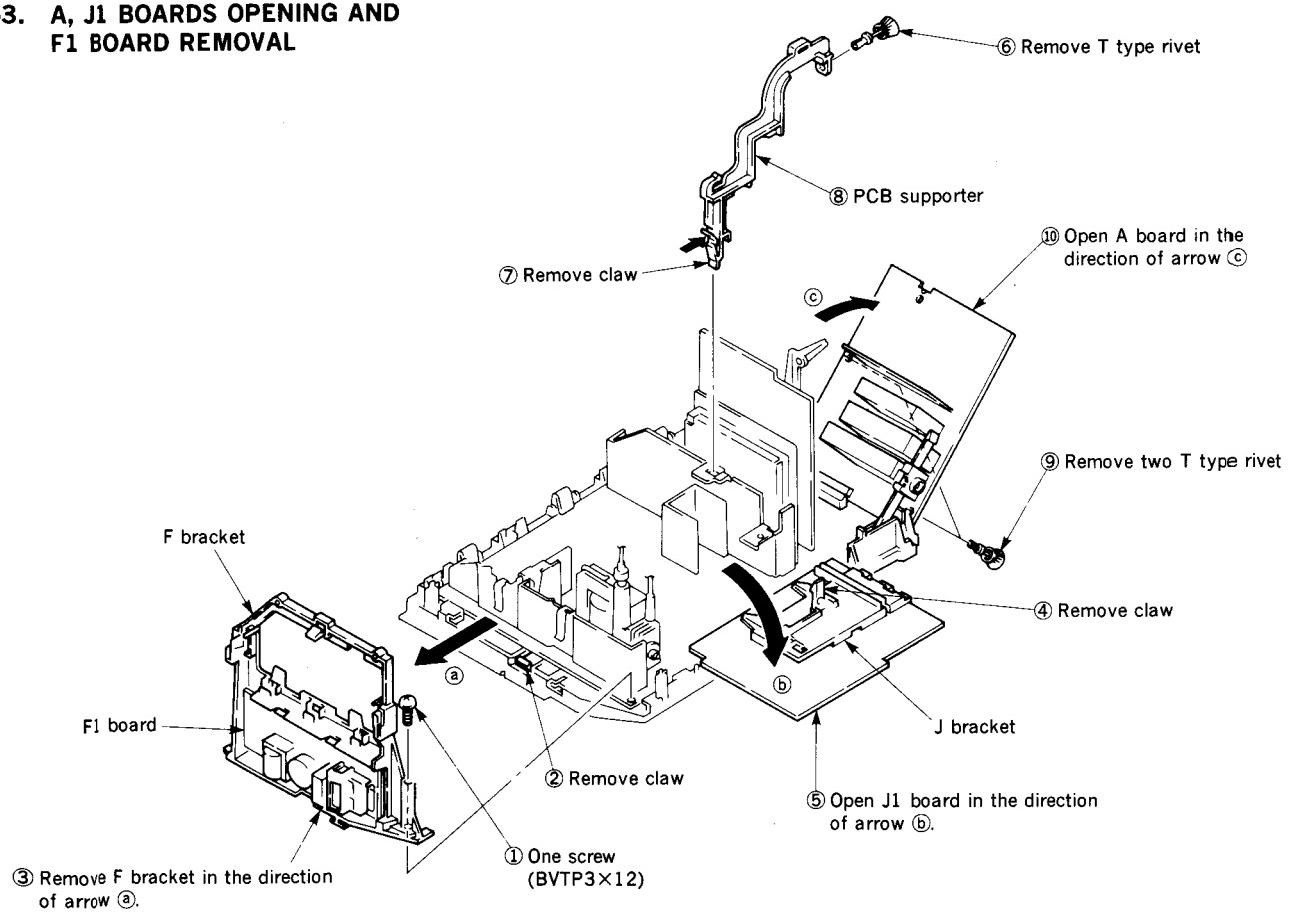
2-1. REAR COVER REMOVAL



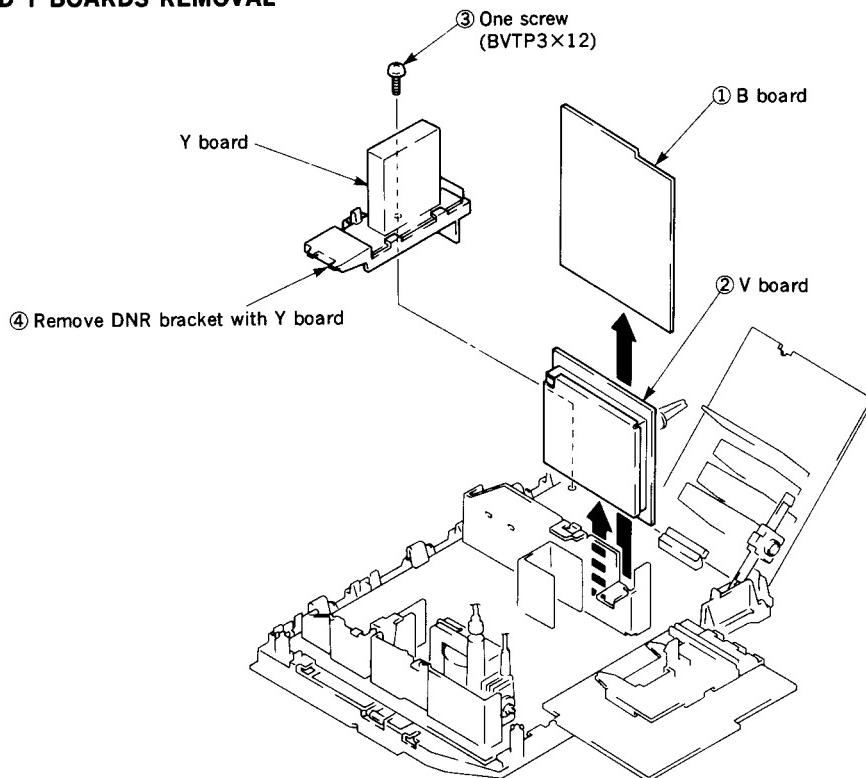
2-2. CHASSIS ASSY REMOVAL



2-3. A, J1 BOARDS OPENING AND F1 BOARD REMOVAL

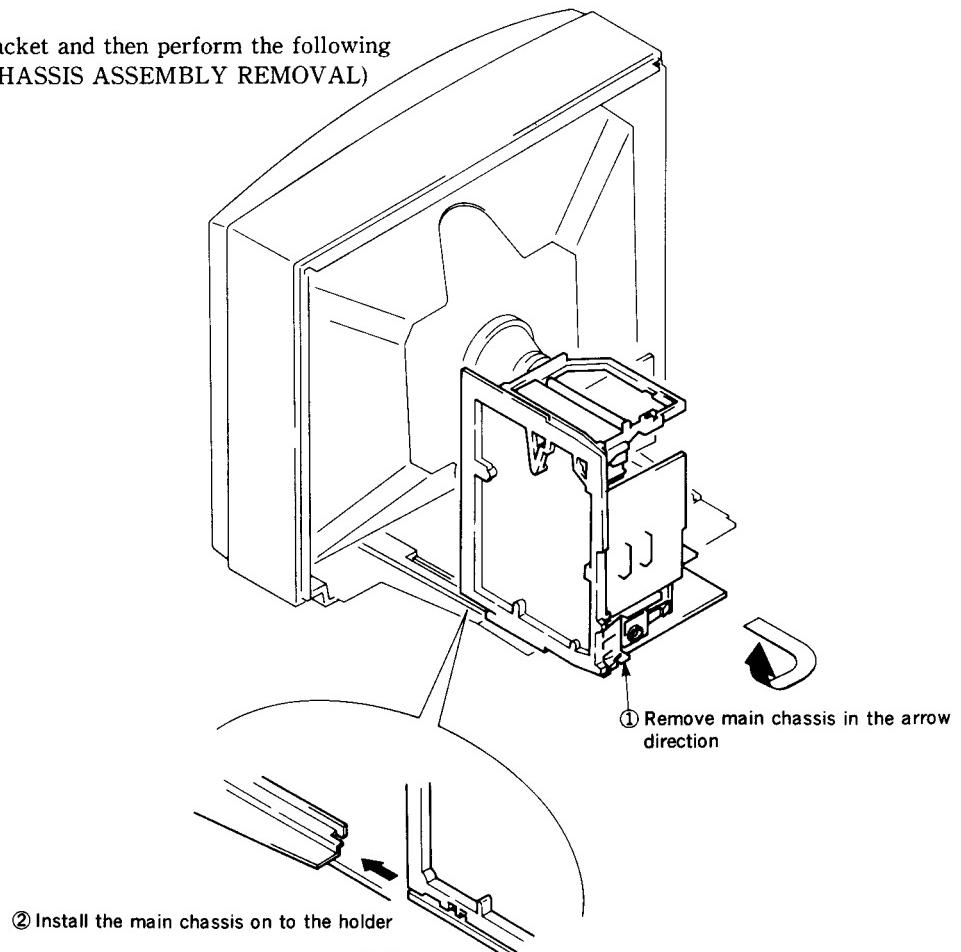


2-4. V, B AND Y BOARDS REMOVAL

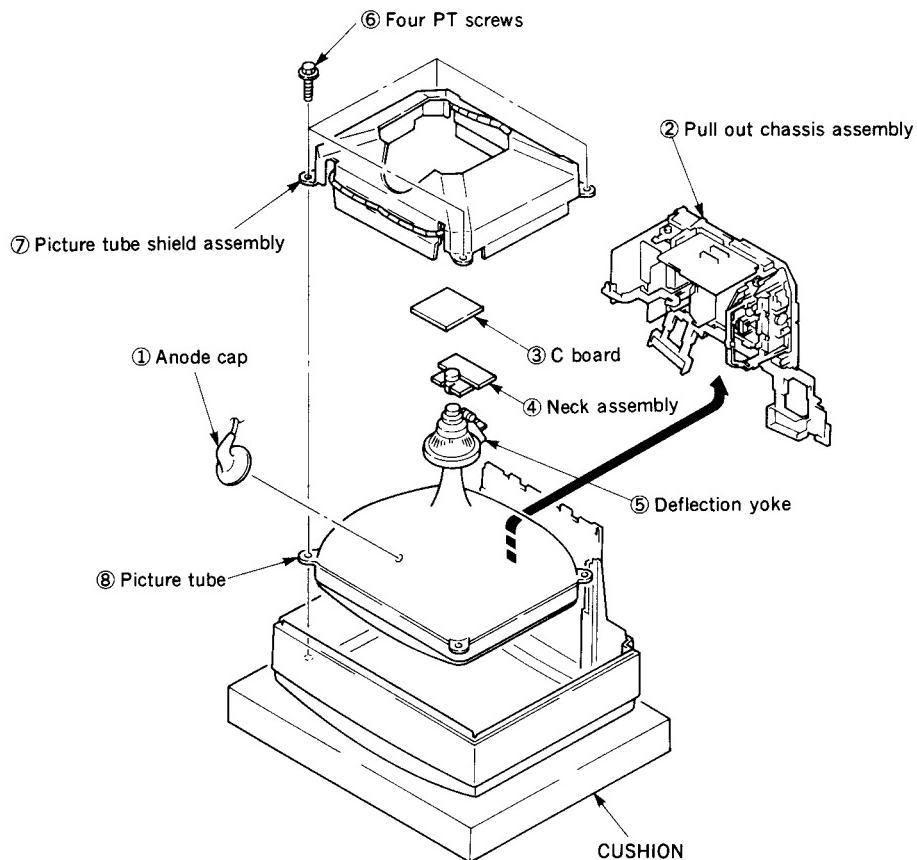


2-5. SERVICE POSITION

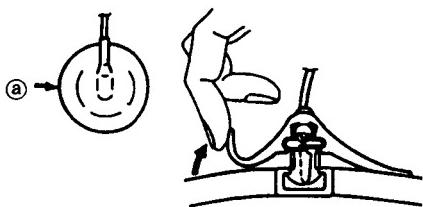
*Remove the connector bracket and then perform the following servicing (refer to 2-2. CHASSIS ASSEMBLY REMOVAL)



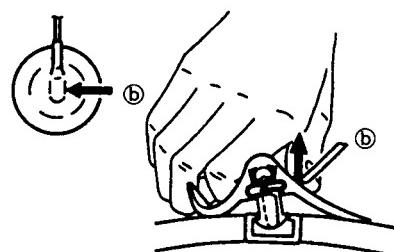
2-6. PICTURE TUBE REMOVAL



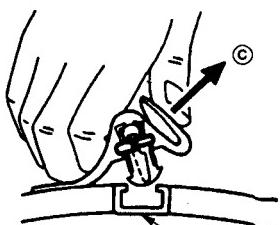
- **REMOVAL OF ANODE-CAP**
- **REMOVING PROCEDURES**



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



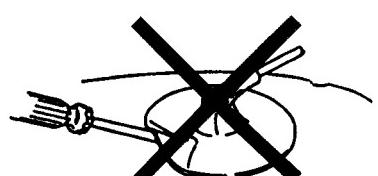
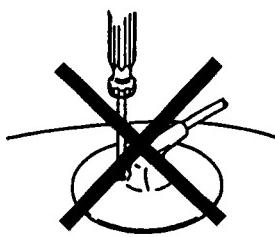
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

- **HOW TO HANDLE AN ANODE-CAP**

- ① Don't hurt the surface of anode-caps with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or hurt the rubber.



SECITON 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast 80%
(or remote control normal)
 - Brightness 50%

- Carry out the following adjustments in this order:
 1. Beam landing
 2. Convergence
 3. Focus
 4. White balance

Note: Testing equipment required

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 Contrast |
 Brightness | normal
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
 (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 3-4.)

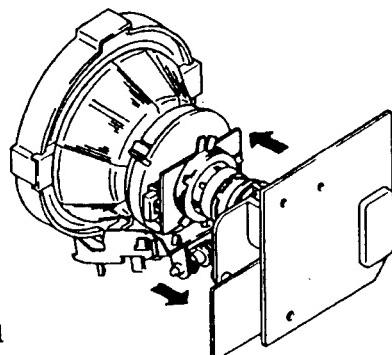


Fig. 3-1

Fig. 3-2

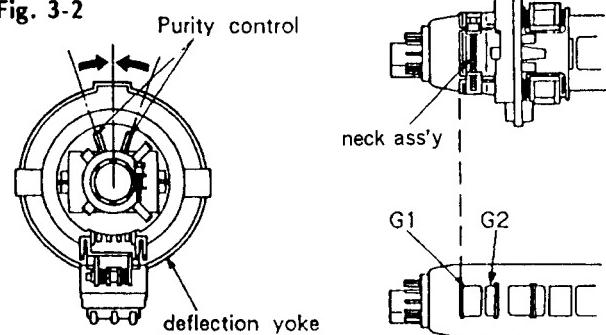


Fig. 3-3

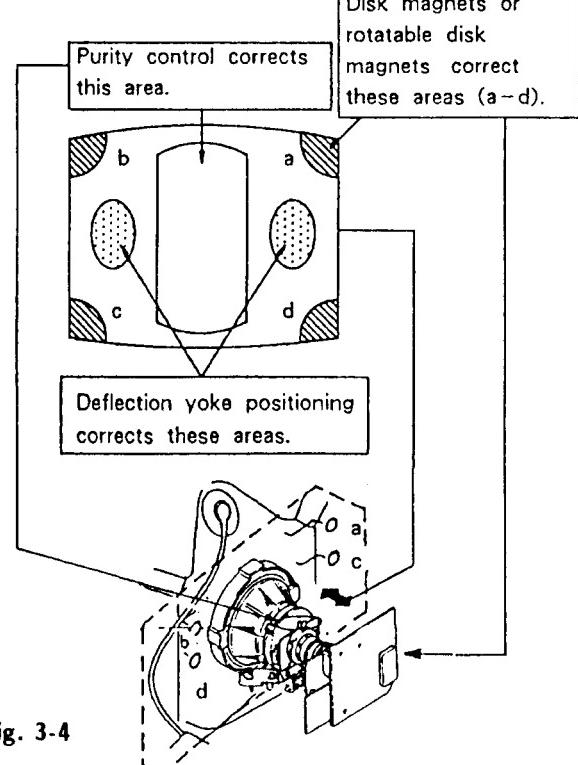
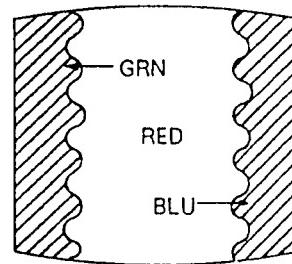


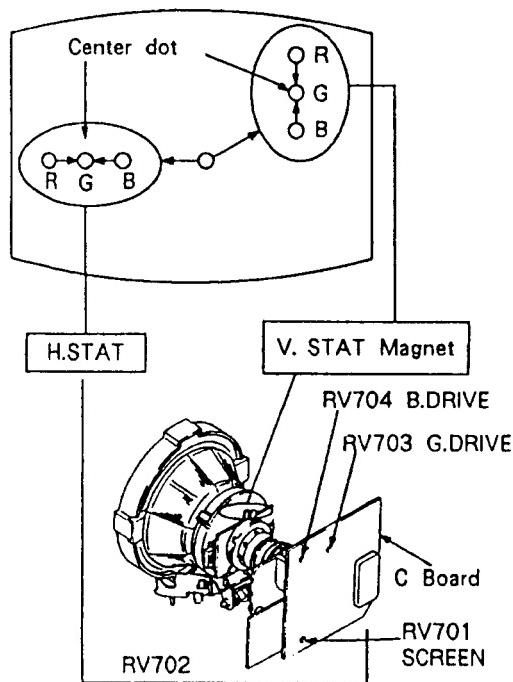
Fig. 3-4

3-2. CONVERGENCE

Preparations :

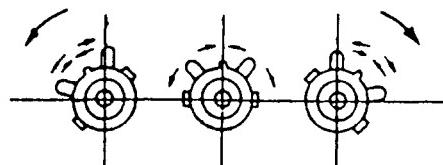
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

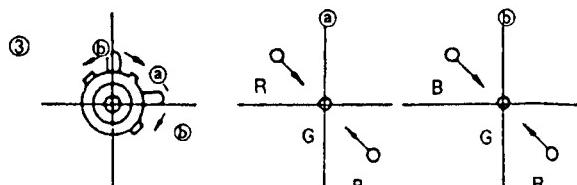
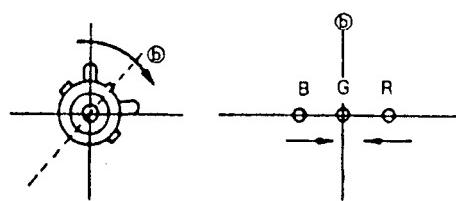
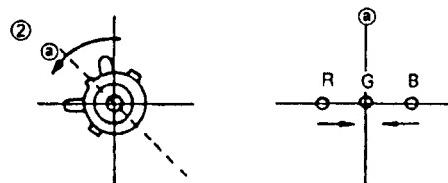
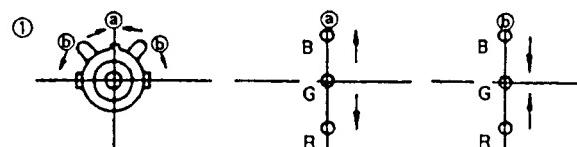


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor can not bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other's settings.)

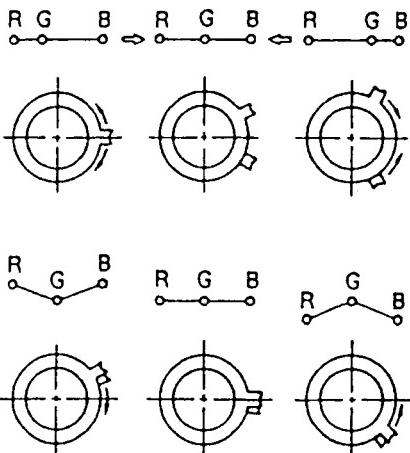
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ④ and ⑤ arrows, the red, green, and blue points move as shown below.

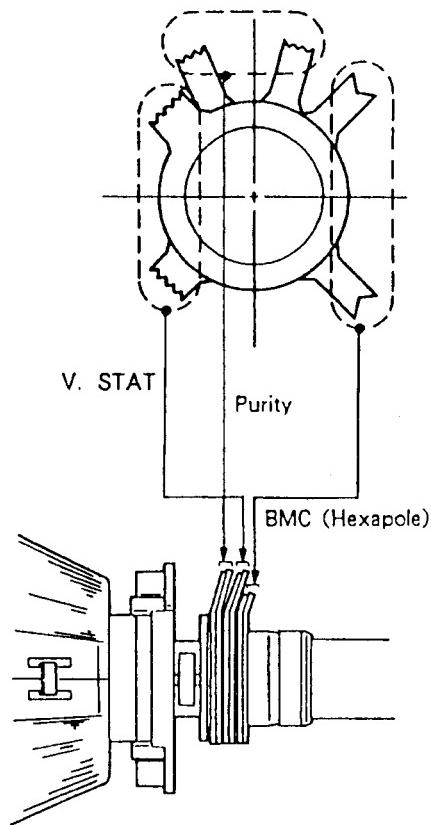


- Operation of BMC (Hexapole) Magnet



- The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



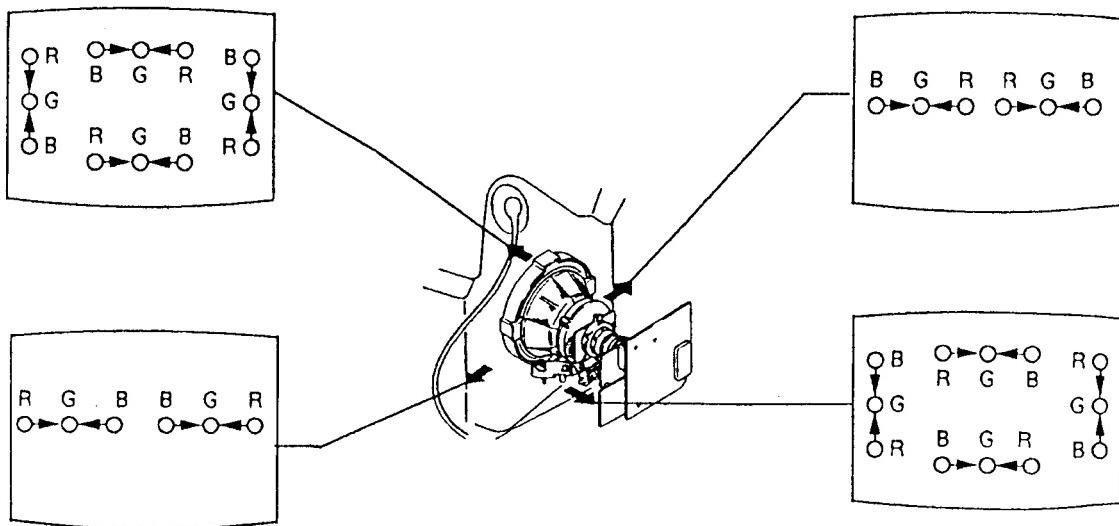
(2) Dynamic convergence adjustment

Preparations :

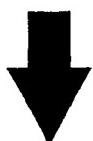
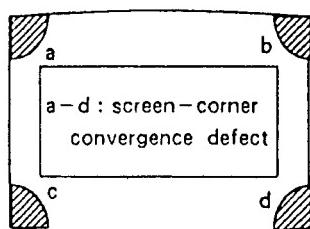
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.

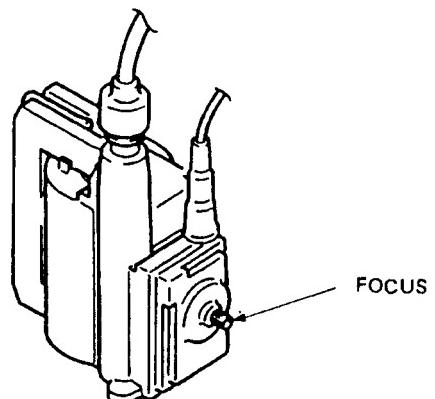


(3) Screen corner convergence

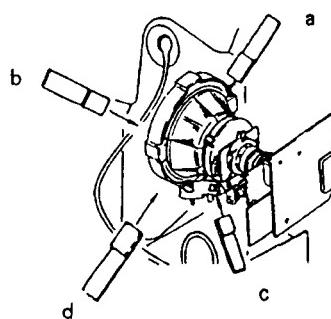


3-3. FOCUS

Adjust the focus to optimize the screen.



Install the permalloy assembly for the section with faulty.



Permalloy

3-4. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture and brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

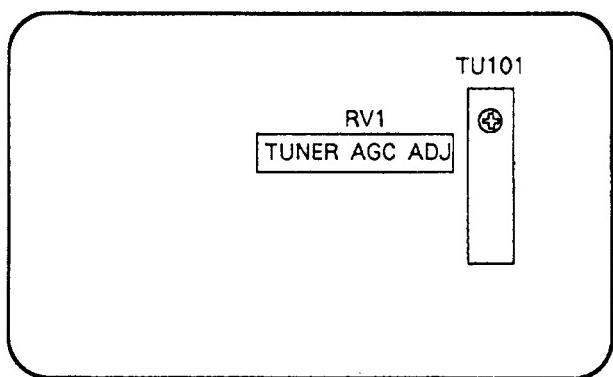
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

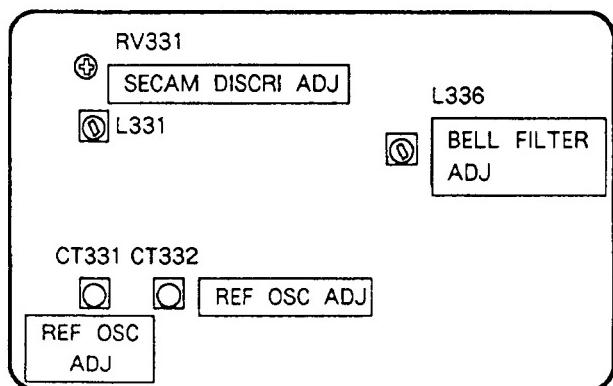


(COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENTS



(COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

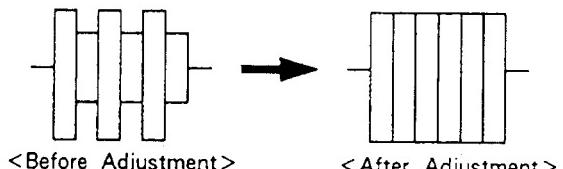
1. Input a PAL color bar signal.
2. Ground pin ⑯ of the IC331.
3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑯ of IC331.
3. Adjust the CT331 to obtain synchronization.
4. Remove the jumper grounding pin ⑯ of IC331.

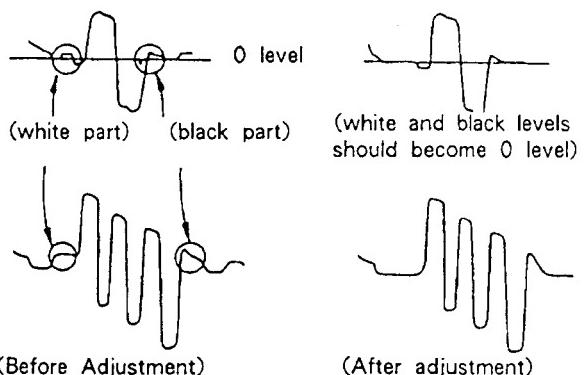
BELL FILTER ADJUSTMENT (L336)

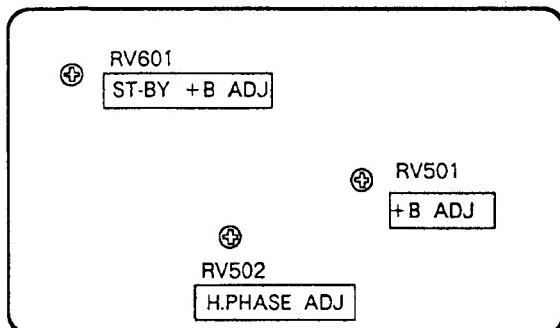
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q335.
3. Adjust L336 so that the waveform is flat.



DISCRIMINATION ADJUSTMENT (RV331 and L331)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 so that the white and black sections of the waveform at pin ① come to the 0 level.
4. Connect the oscilloscope to pin ③ of IC331.
5. Adjust L331 so that the white and black sections of the waveform at pin ③ come to the 0 level.



4-3. D BOARD ADJUSTMENTS**+B ADJUSTMENT (RV501)**

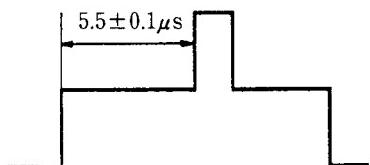
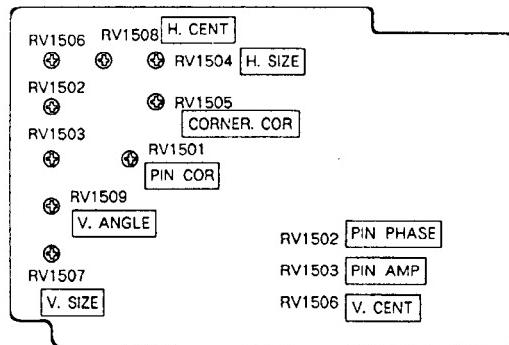
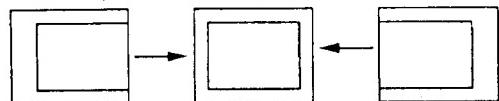
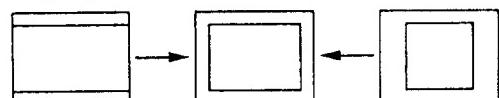
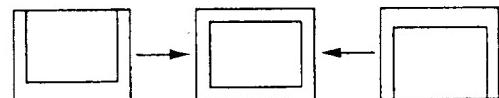
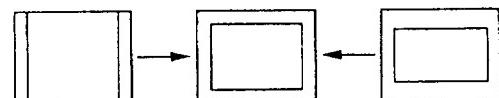
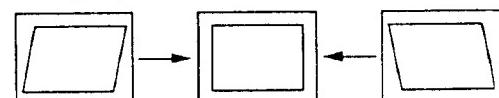
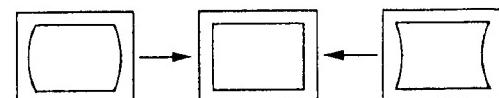
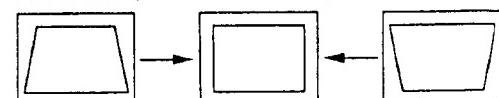
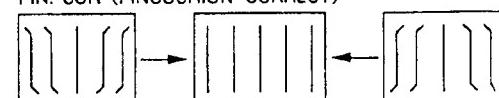
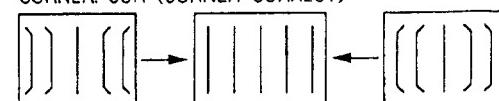
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

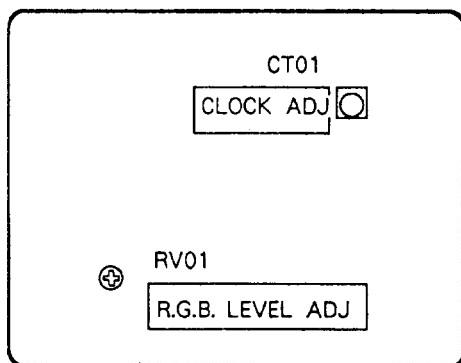
1. Put the system into \odot standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of \odot standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $5.5 \pm 0.1\mu s$.

**4-4. J1 BOARD ADJUSTMENTS**RV1508
H. CENT (HORIZONTAL CENTER)RV1504
H. SIZE (HORIZONTAL SIZE)RV1506
V. CENT (VERTICAL CENTER)RV1507
V. SIZE (VERTICAL SIZE)RV1509
V. ANGLE (VERTICAL ANGLE)RV1503
PIN AMP (PINCUSHION AMPLIFIER)RV1502
PIN PHASE (PINCUSHION PHASE)RV1501
PIN. COR (PINCUSHION CORRECT)RV1505
CORNER. COR (CORNER CORRECT)

4-5. V BOARD ADJUSTMENTS



CLOCK ADJUSTMENT (CT01)

1. Remove the V-1 connector.
2. Put the system into text mode.
3. Adjust CT01 so that the picture does not move.

RGB LEVEL ADJUSTMENT

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENT

SUB BRIGHTNESS ADJUSTMENT

1. Set the system to receive a test pattern.
2. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \odot contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander.
(SUB mode is released)

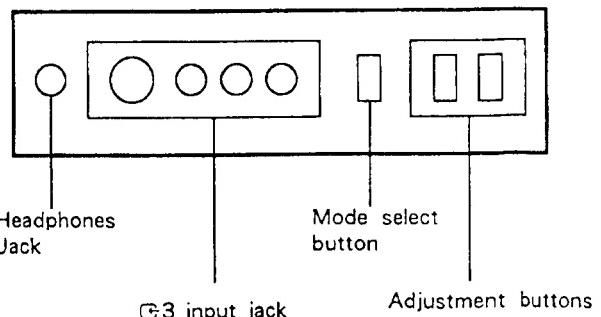
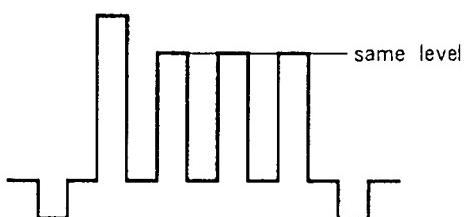
If there is no test color pattern

1. Set the system to receive a color pattern.
 2. Press on the remote commander to put system into normal mode.
- Set the \odot color to its normal state.

- 3-5. are the same as above.
6. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
7. is the same as above.
8. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.

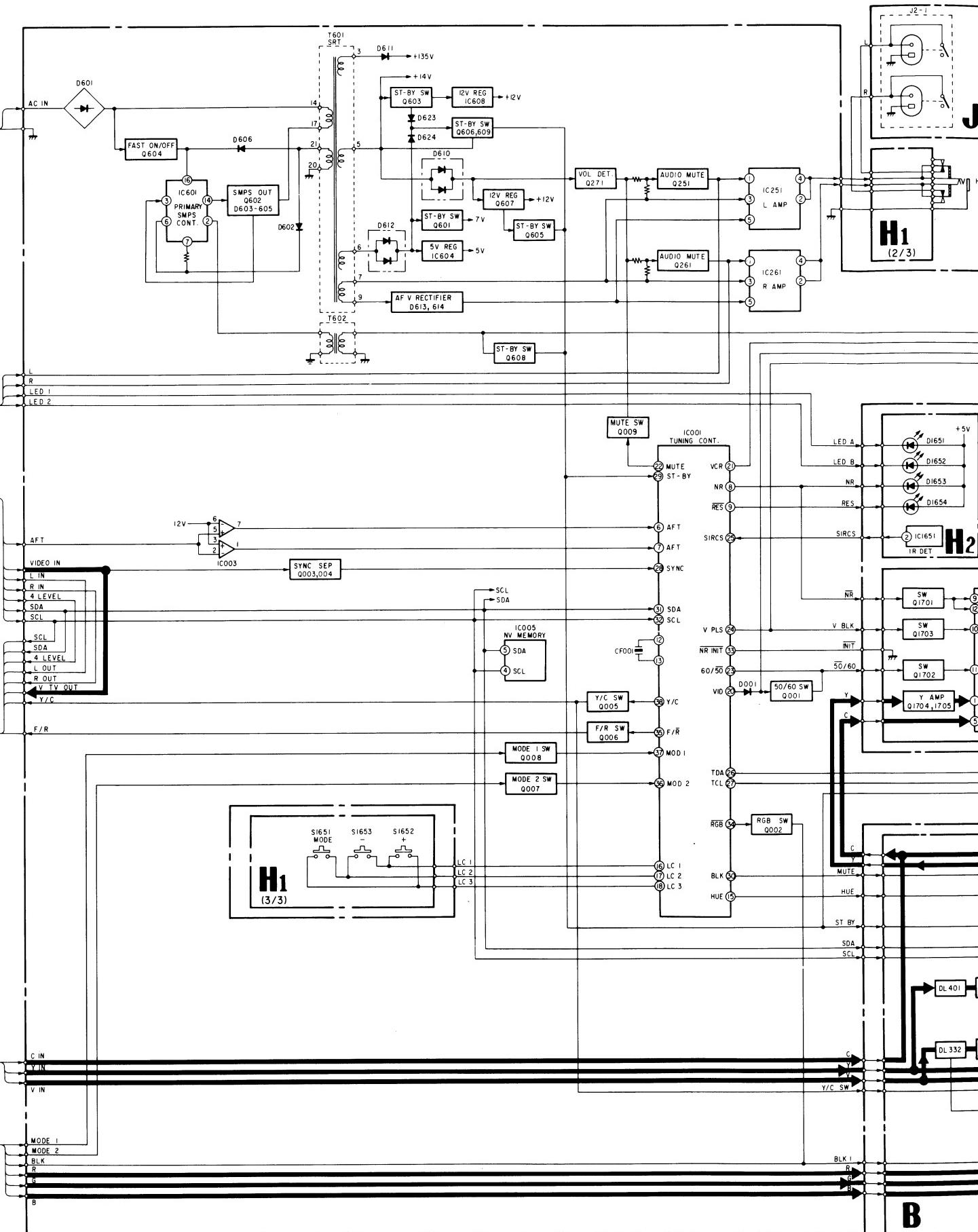
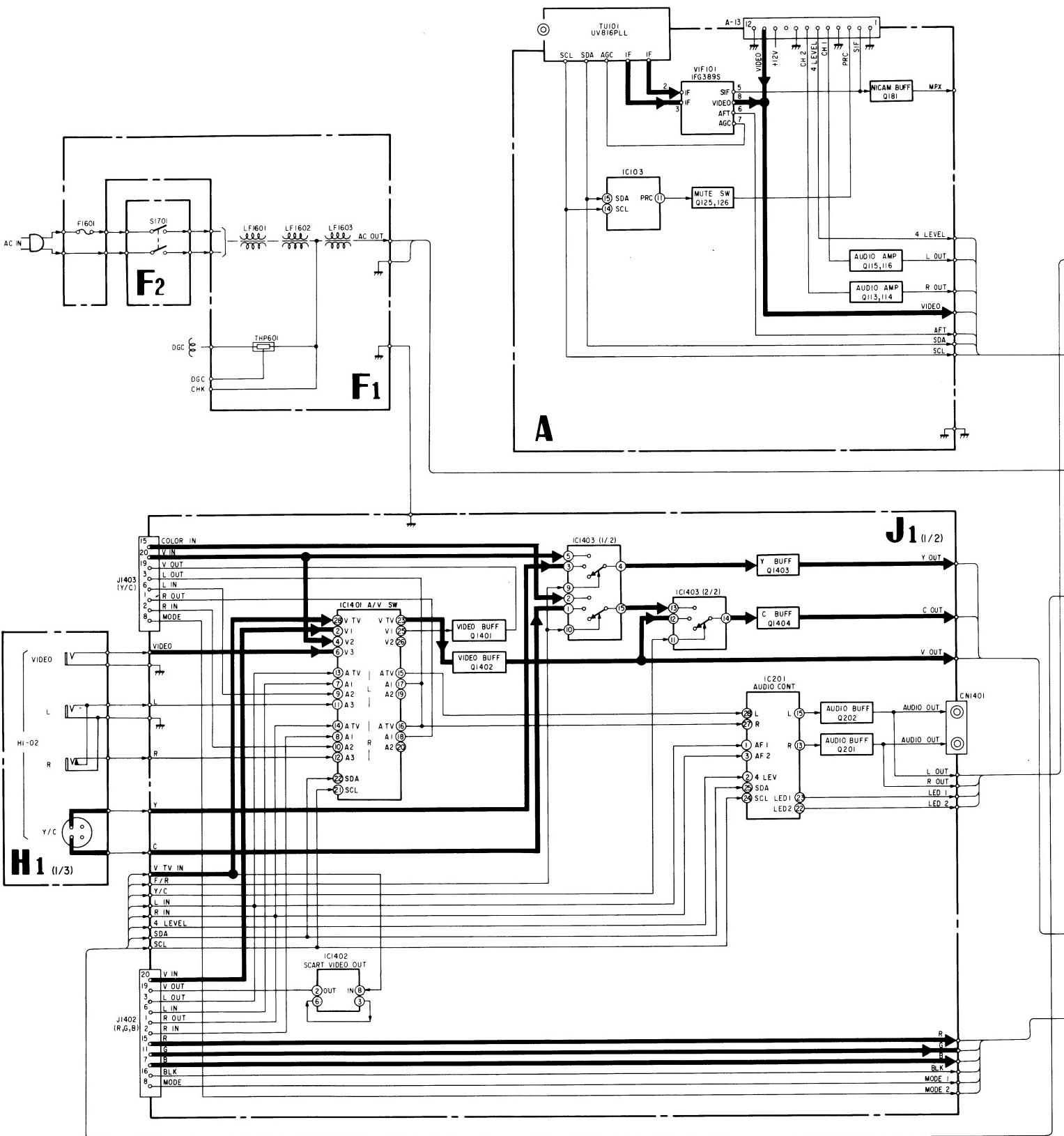
SUB COLOR ADJUSTMENT

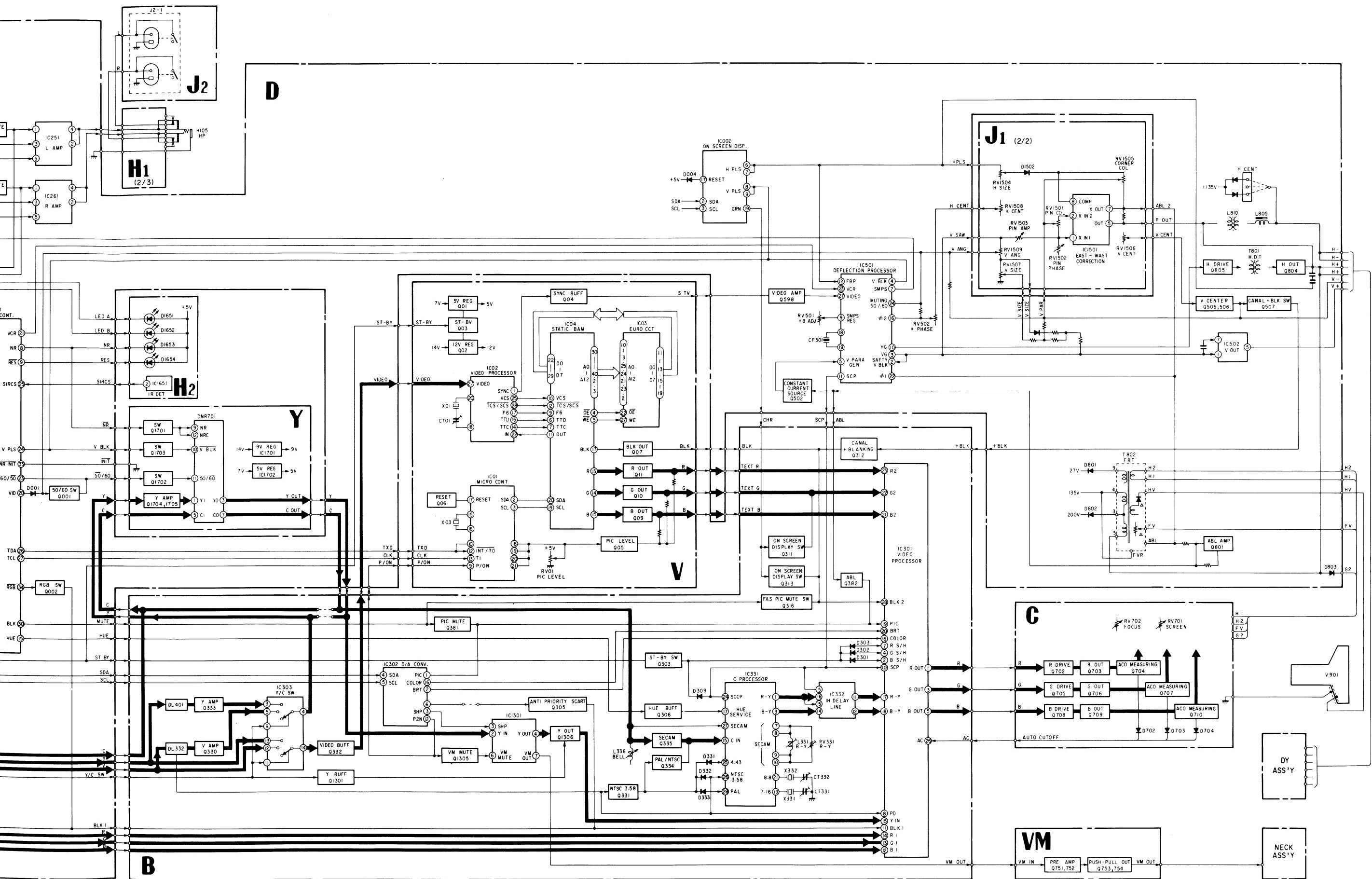
1. Set the system to receive color bars.
2. Press $\rightarrow \leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Adjust the color control so that the B out waveform (pin ② of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)



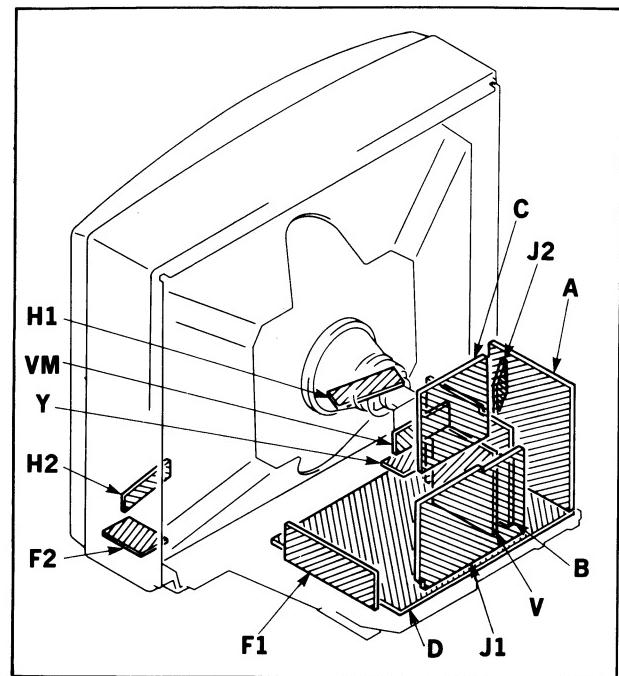
SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM





5-2. CIRCUIT BOARD LOCATION



Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note :

- All capacitors are in μF unless otherwise noted.
- pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B + line.
- : signal path.

F1

[LINE FILTER, DGC]

F2

[POWER SWITCH]

H1

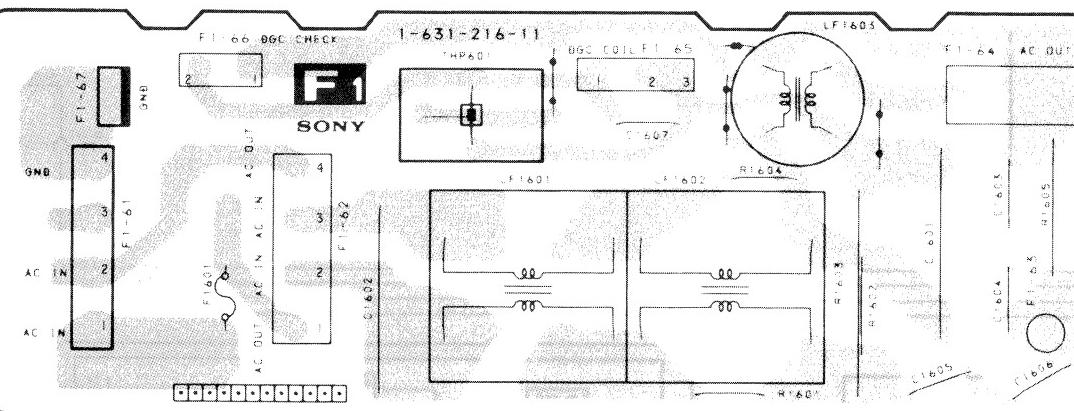
[CONTROL SW,
AV INPUT,
HEADPHONE]

H2

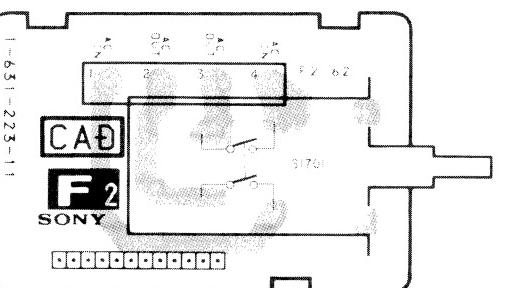
[SIRCS RECEIVER,
INDICATOR]

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — Conductor Side —

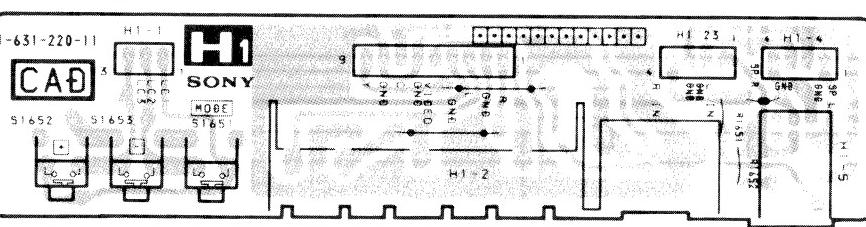
— F1 Board —



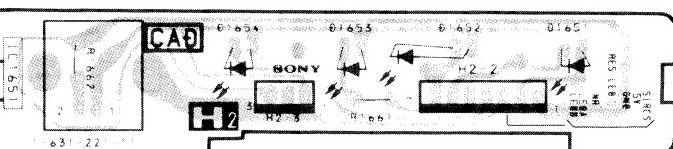
— F2 Board —



— H1 Board —



— H2 Board —



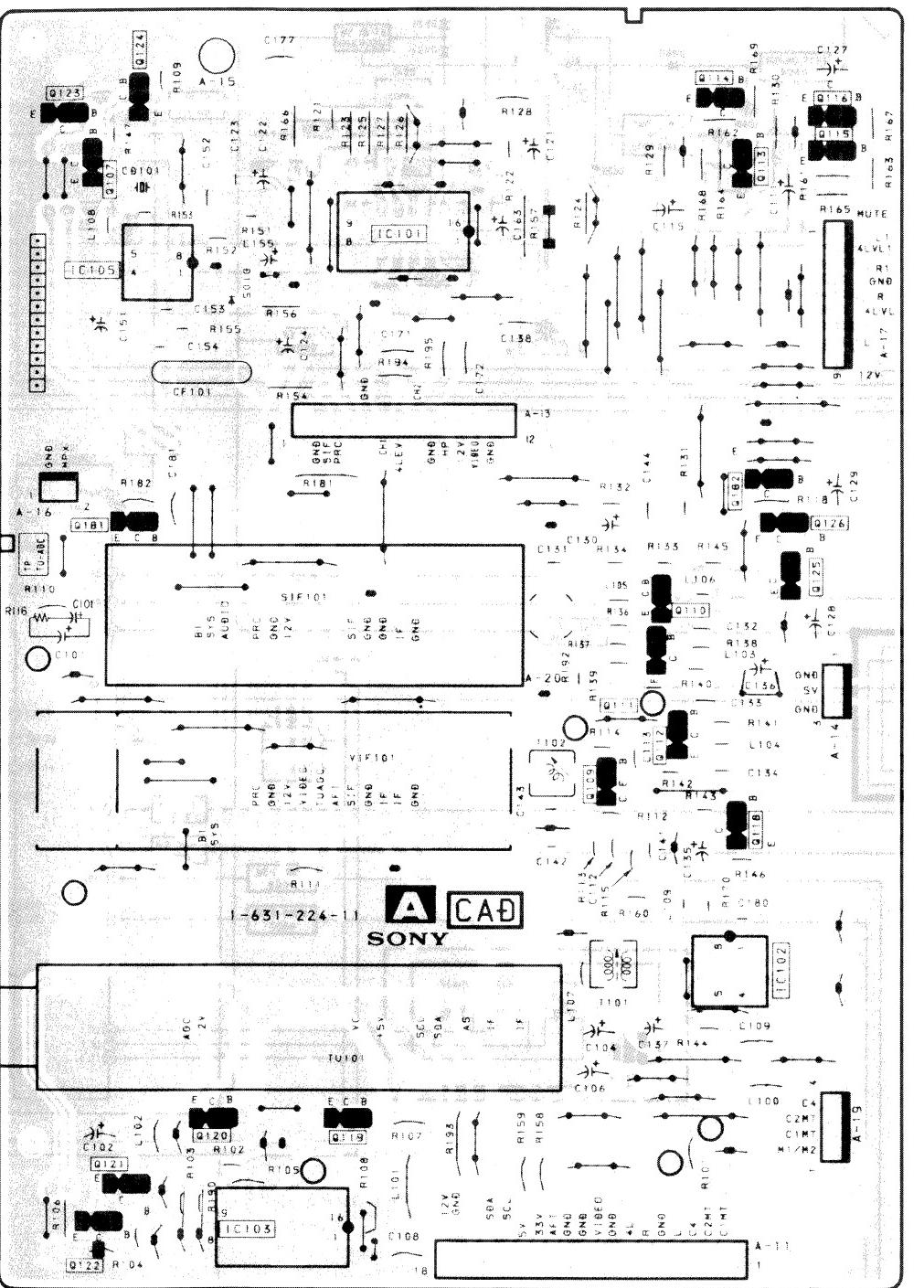
UNER, VIF, SIF]

J1

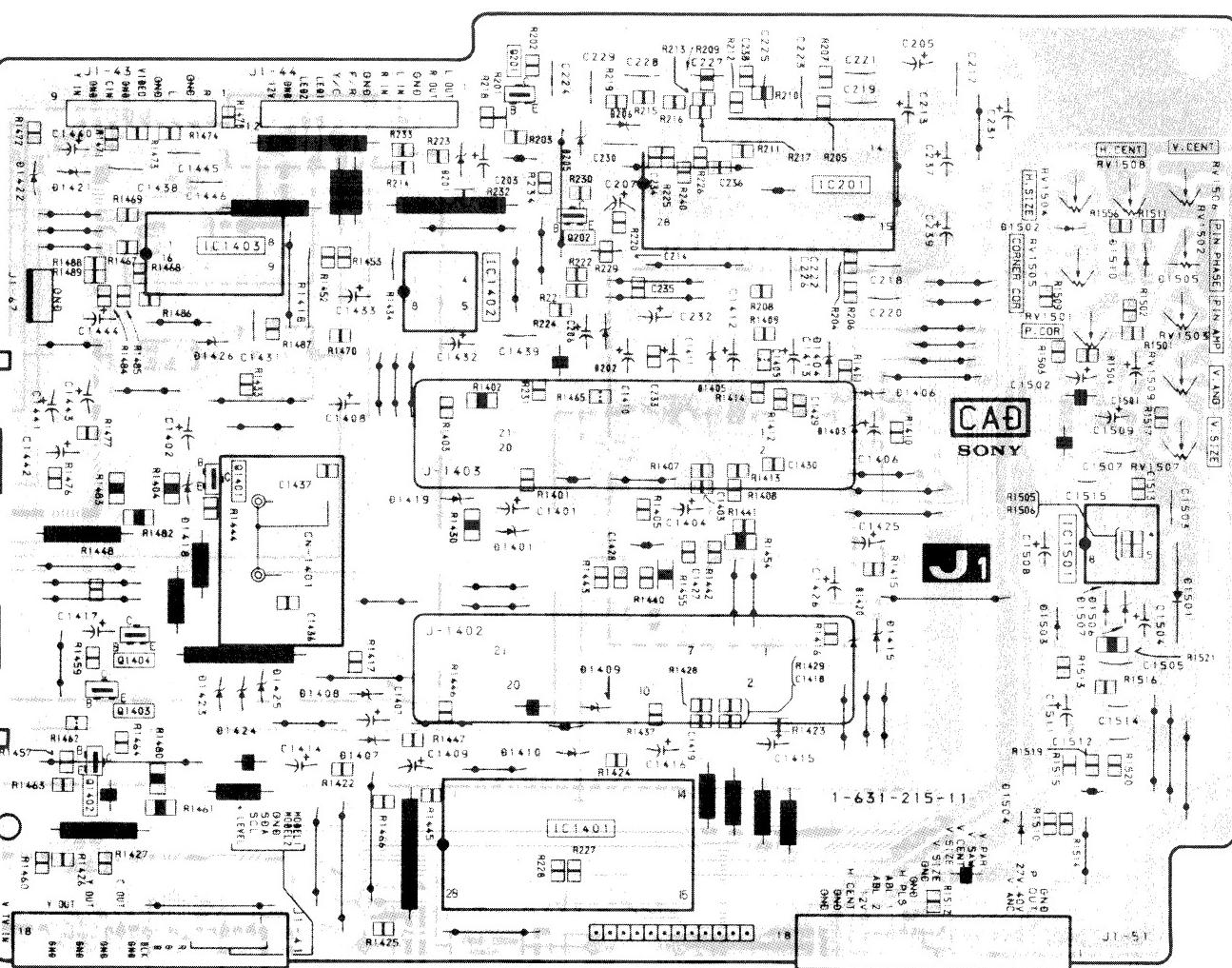
2 SPEAKER TERMINAL

[NOISE REDUCTION]

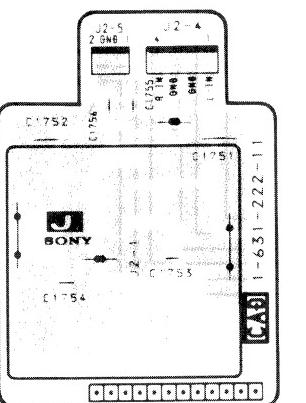
— A Board —



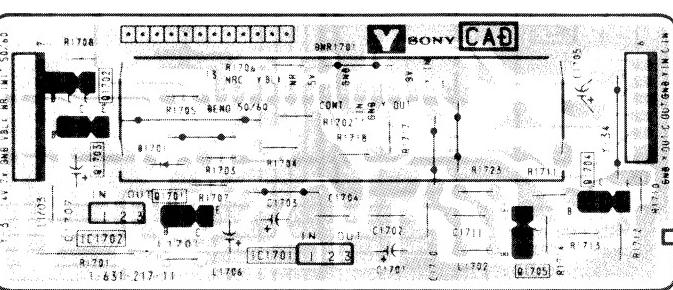
— J1 Board —

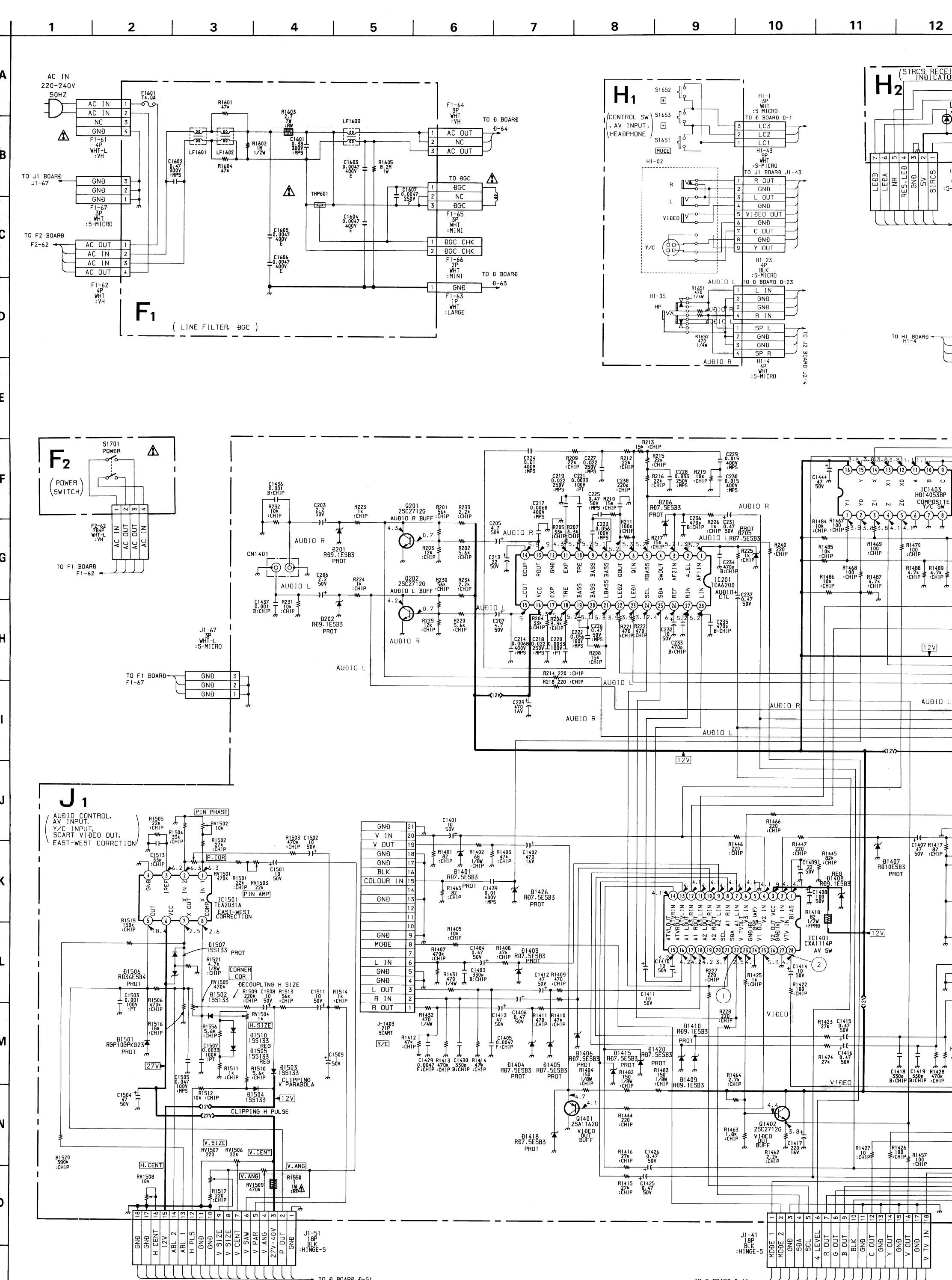


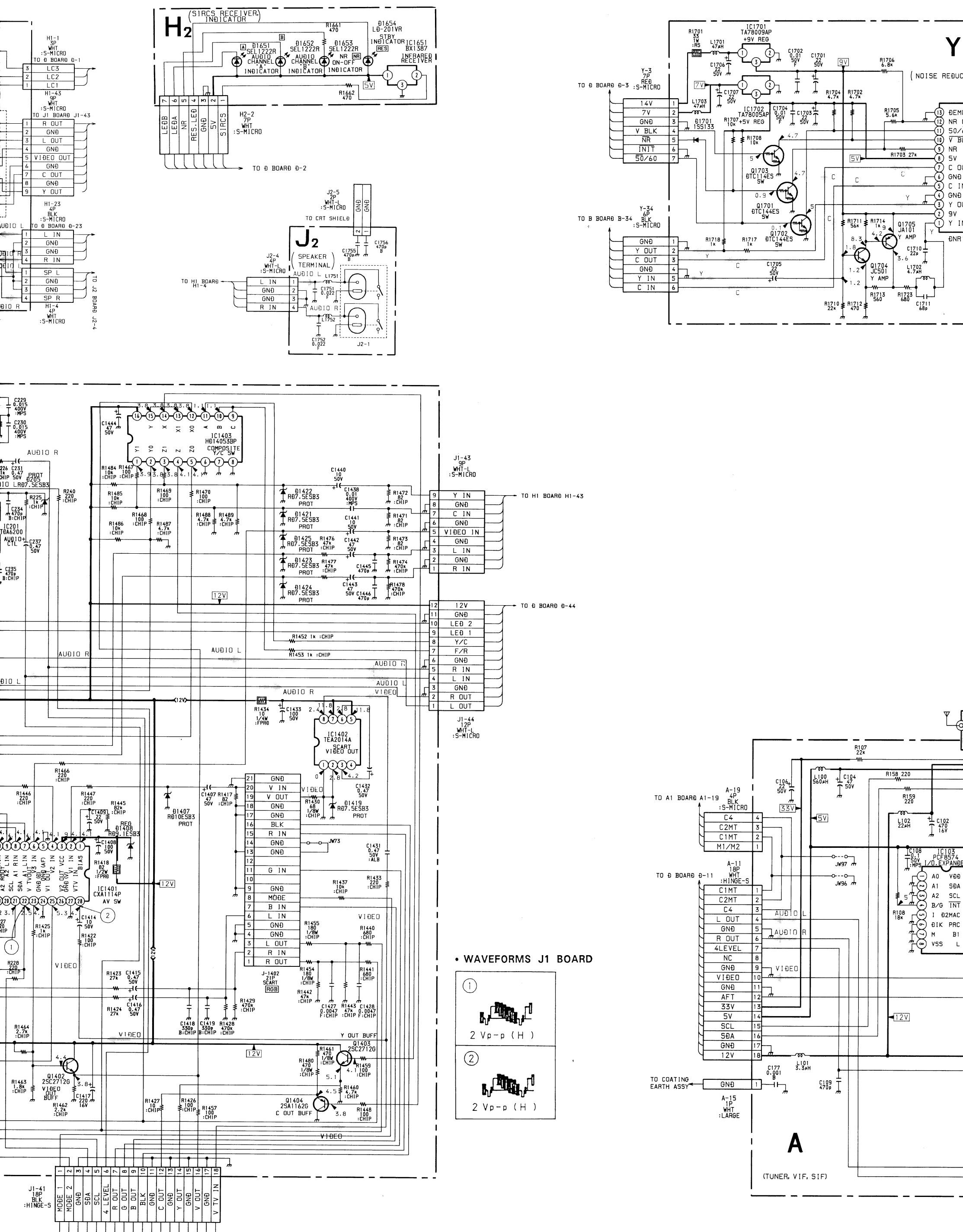
— J2 Board —

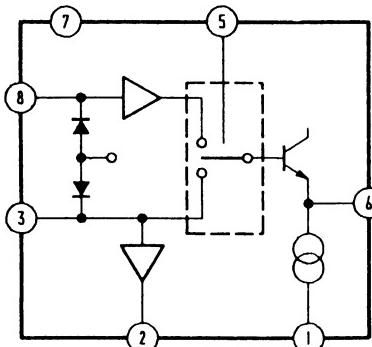
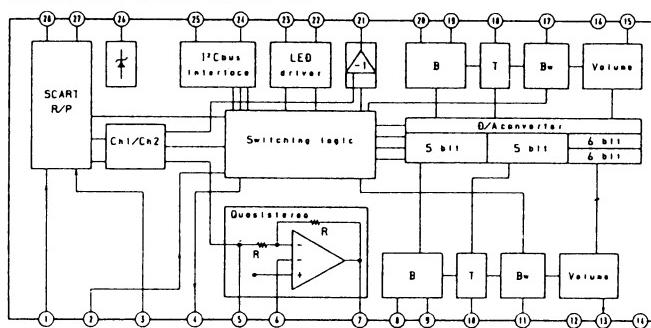
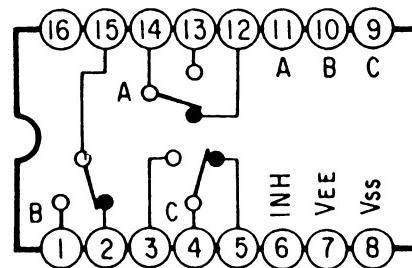
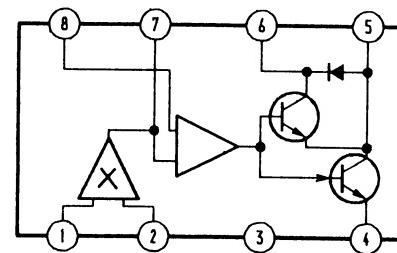
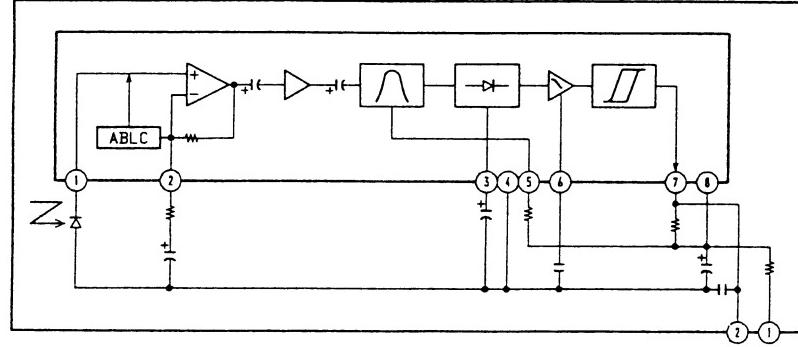


— Y Board —

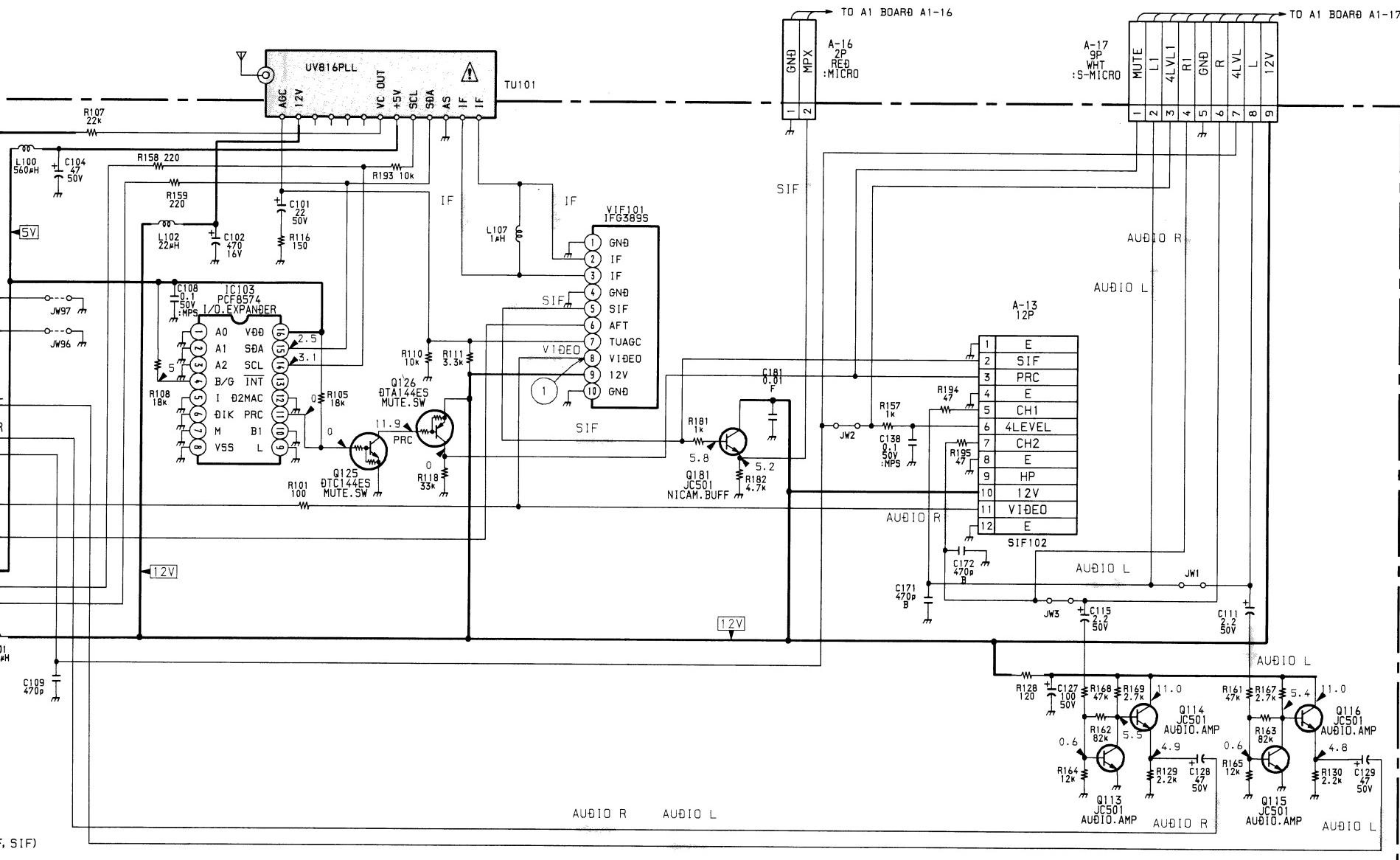
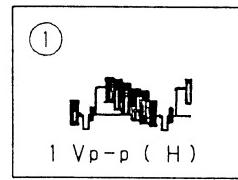






J1 BOARD IC1402 TEA2014A**J1 BOARD IC201 TDA6200****J1 BOARD IC1403 HD14053BP****J1 BOARD IC1501 TEA2031****H2 BOARD IC1651 BX1387**

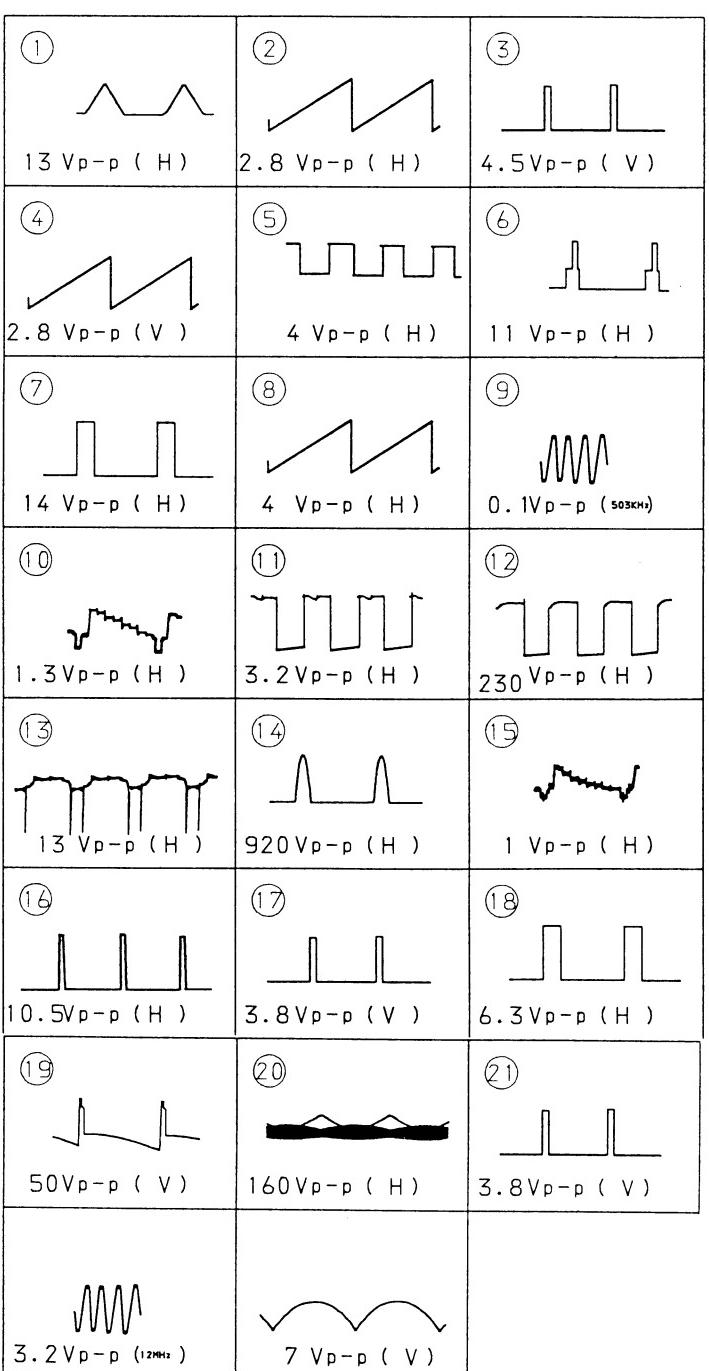
• WAVEFORMS A BOARD



1 2 3 4 5 6 7 8 9 10 11

A

• WAVEFORMS D BOARD



B

C

D

E

F

G

H

I

J

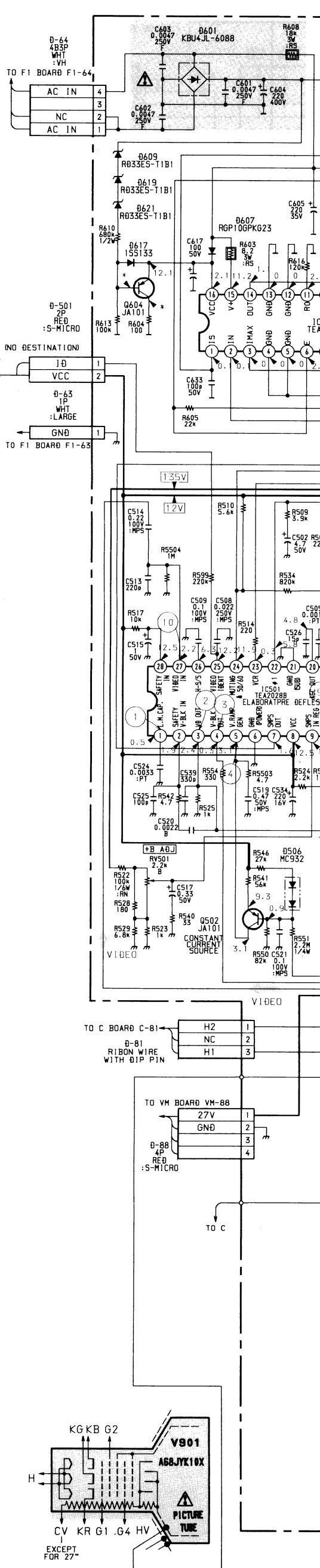
K

L

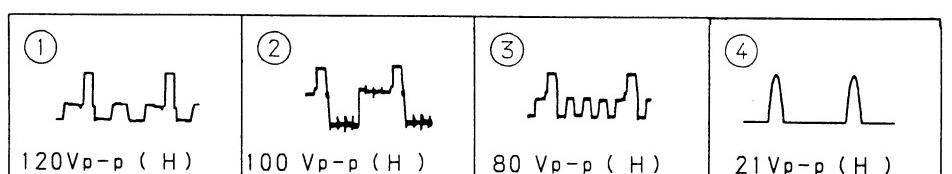
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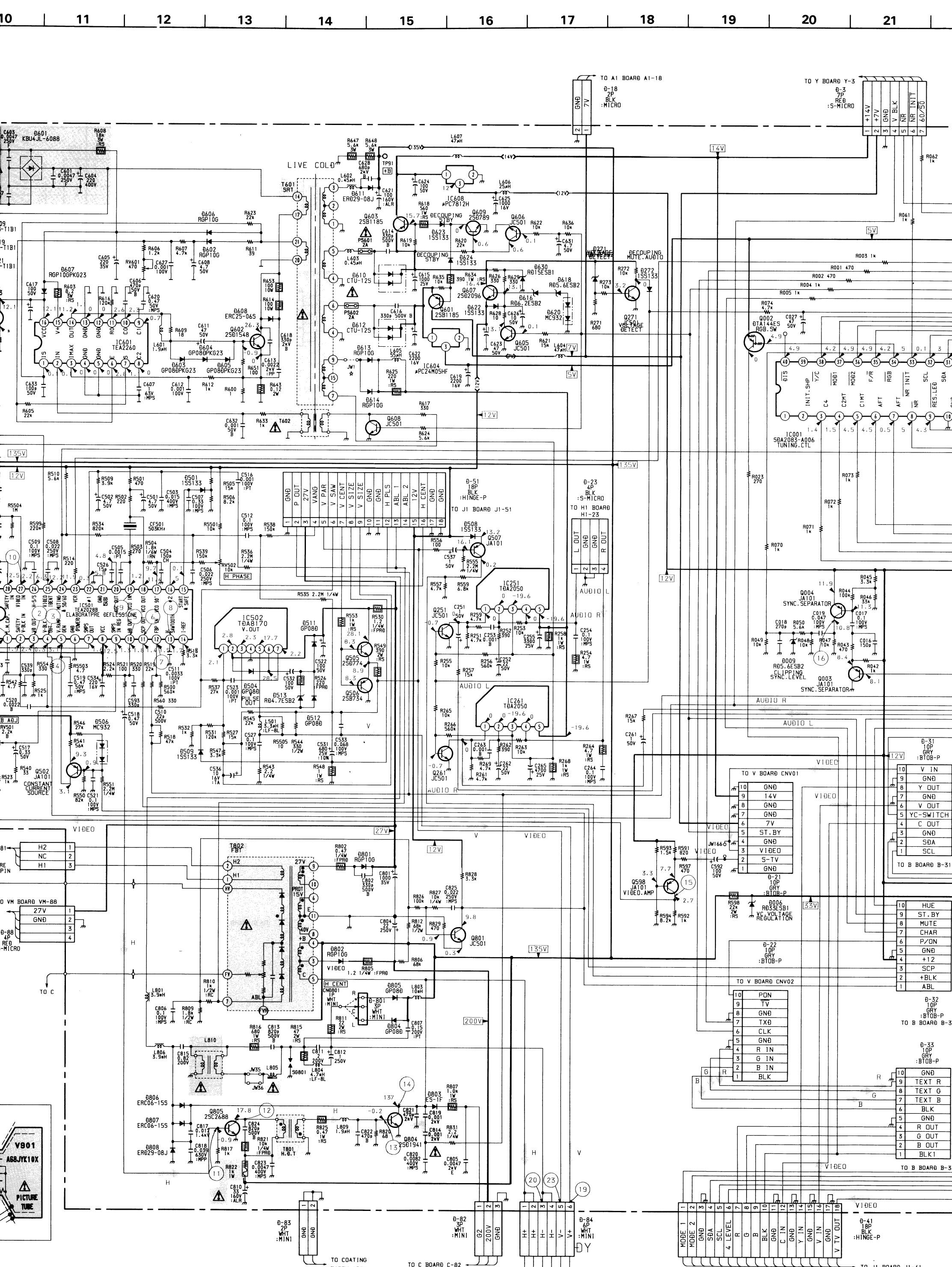
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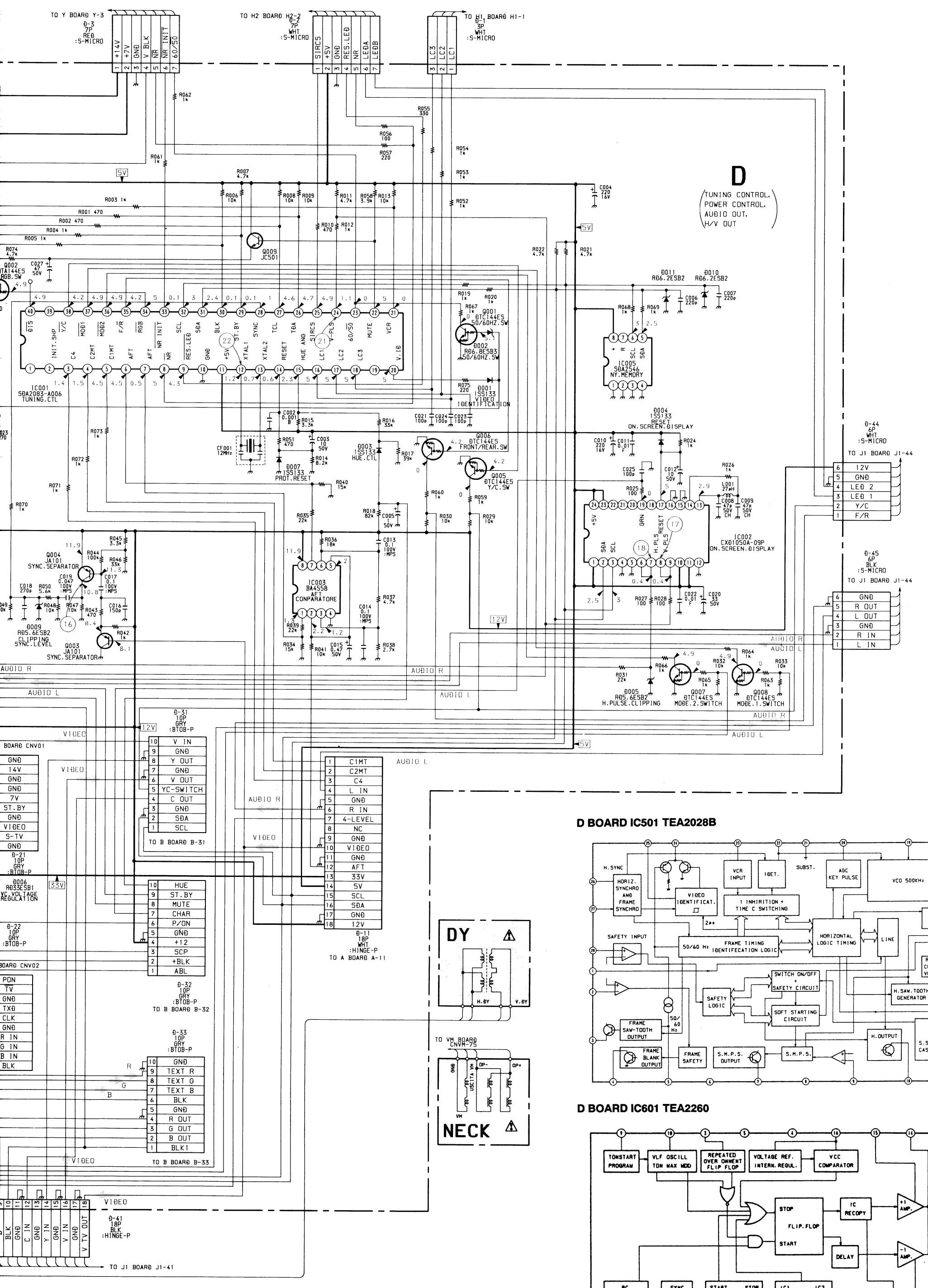
O



• WAVEFORMS C BOARD





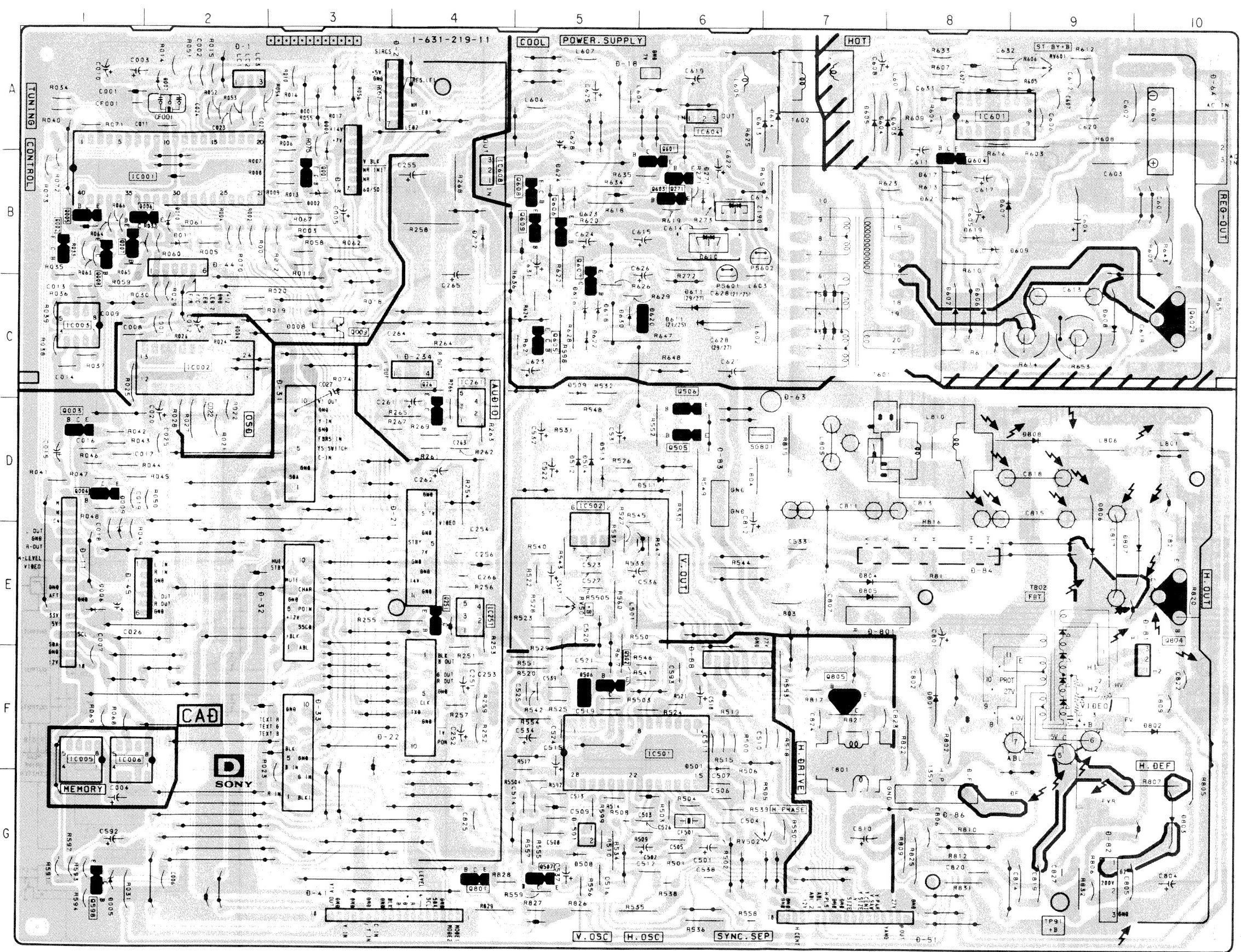


TUNING CONTROL,
POWER CONTROL,
AUDIO OUT,
H/V OUT

D

D

— D Board —



D BOARD

IC	DIODE	VARIABLE RESISTOR	TEST POINT
IC001	B-1	D001	A-3
IC002	C-2	D002	B-3
IC003	C-1	D003	A-3
IC005	F-1	D004	C-2
IC251	E-4	D005	G-1
IC261	C-4	D006	E-1
IC501	F-6	D007	A-2
IC502	D-6	D009	D-1
IC601	A-8	D010	B-2
IC604	A-6	D271	B-6
IC608	B-4	D272	B-4
		RV501	E-5
		RV502	G-6
		RV601	A-9
			TP91 G-9

**ING CONTROL
CONTROL
OUT,
T**

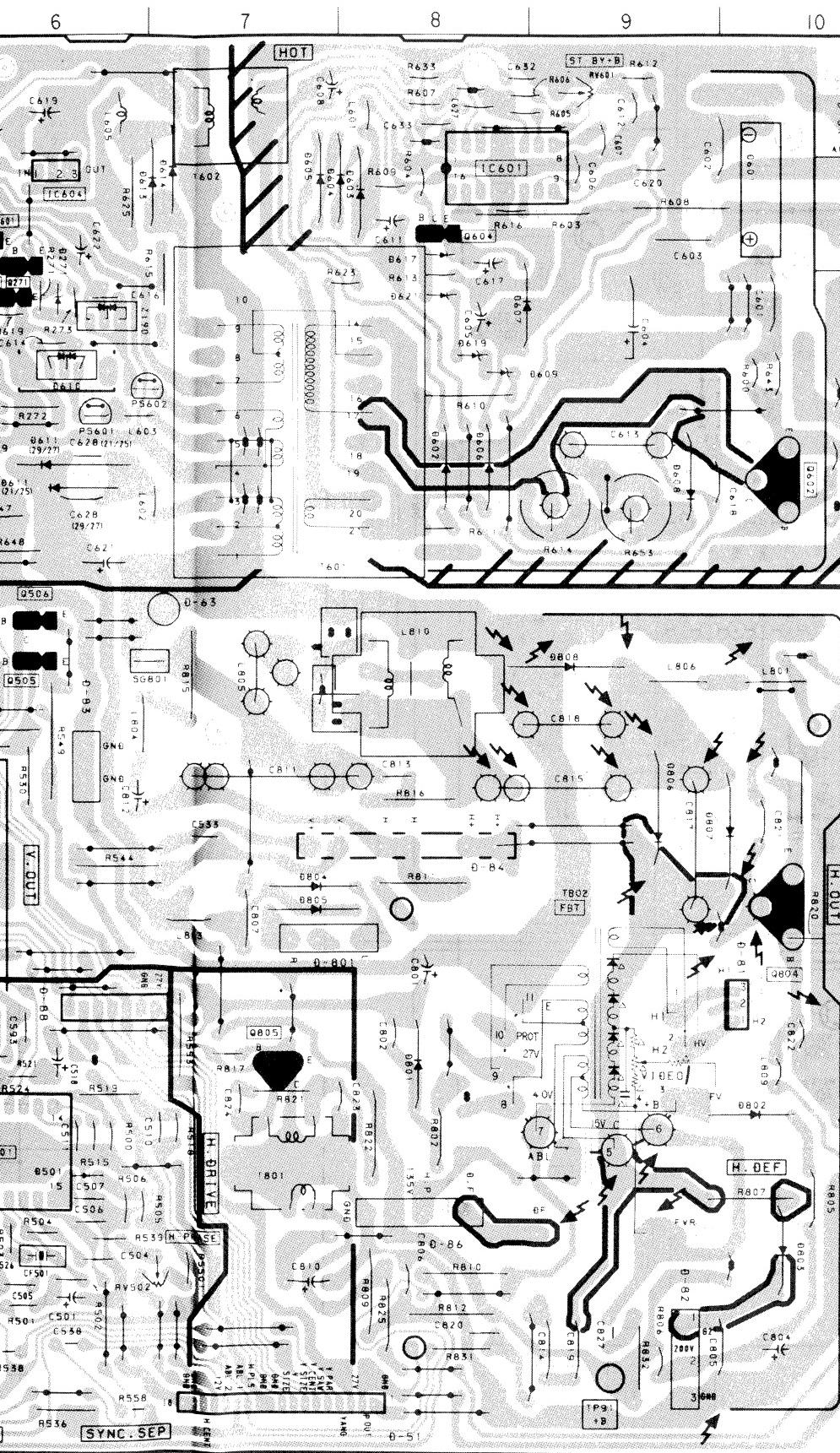
D

D

[R. B. B OUT]

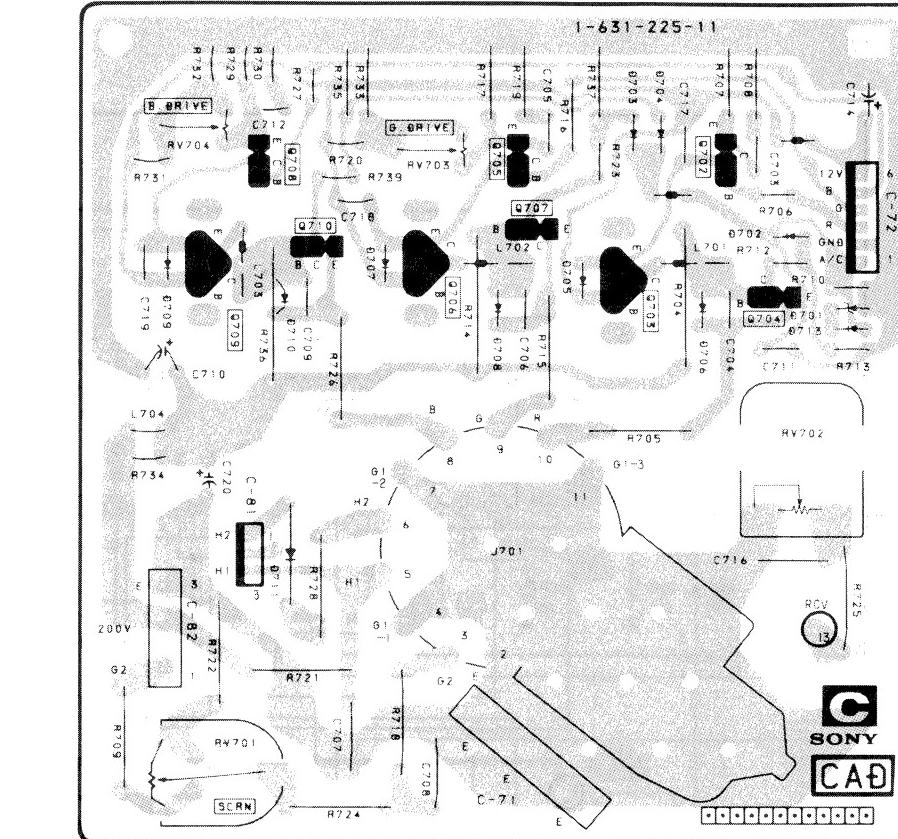
C

Đ BOA



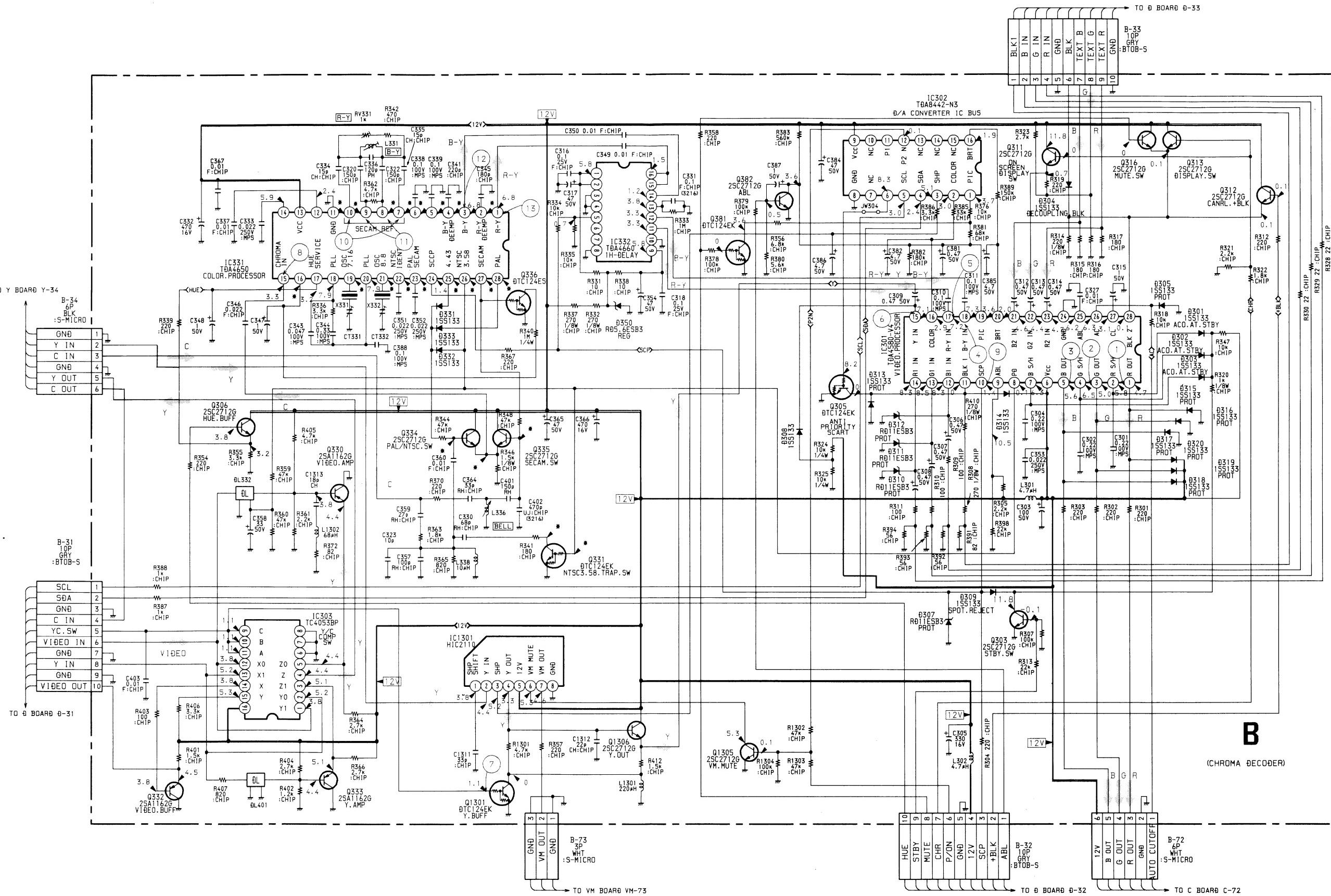
IC	DIODE	808
IC001 B-1	D001 A-3	
IC002 C-2	D002 B-3	
IC003 C-1	D003 A-3	
IC005 F-1	D004 C-2	
IC251 E-4	D005 G-1	
IC261 C-4	D006 E-1	RV501 E
IC501 F-6	D007 A-2	RV502 G
IC502 D-6	D009 D-1	RV601 A
IC601 A-8	D010 B-2	
IC604 A-6	D011 B-2	
IC608 B-4	D271 B-6	
	D272 B-4	
	D501 F-6	
	D504 D-5	TP91 G
	D506 F-5	
	D508 G-5	
TRANSISTOR		
Q001 B-3	D508 C-5	
Q002 B-1	D509 D-9	
Q003 D-1	D511 D-5	
Q004 D-1	D512 D-5	
Q005 B-1	D513 A-10	
Q006 B-1	D601 C-8	
Q007 B-1	D602 A-8	
Q008Q B-1	D603 A-7	
Q009 C-3	D604 A-7	
Q251 E-4	D605 C-8	
Q261 C-4	D606 A-8	
Q271 B-6	D606 C-8	
Q502 F-5	D607 B-8	
Q505 D-6	D608 C-9	
Q506 C-6	D609 B-8	
Q507 G-5	D610 B-6	
Q598 G-1	D611 C-6	
Q601 A-6	D612 B-6	
Q602 C-10	D613 A-7	
Q603 B-6	D614 A-7	
Q604 B-7	D616 C-5	
Q605 C-5	D617 B-8	
Q606 B-5	D618 C-5	
Q607 B-5	D619 B-8	
Q608 B-5	D620 C-6	
Q609 B-5	D621 B-8	
Q801 G-4	D622 C-5	
Q804 E-10	D623 B-5	
Q805 F-7	D624 B-5	
	D630 C-5	
	D801 F-8	
	D802 F-10	
	D803 G-10	
	D804 E-7	
	D805 E-7	
	D806 D-9	
	D807 E-10	

— C Board



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

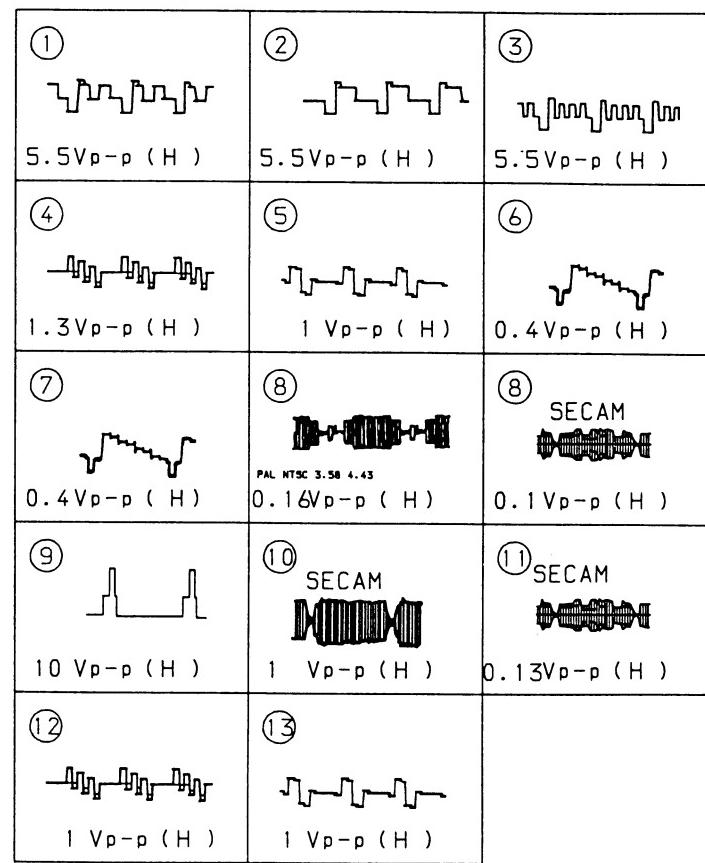
A



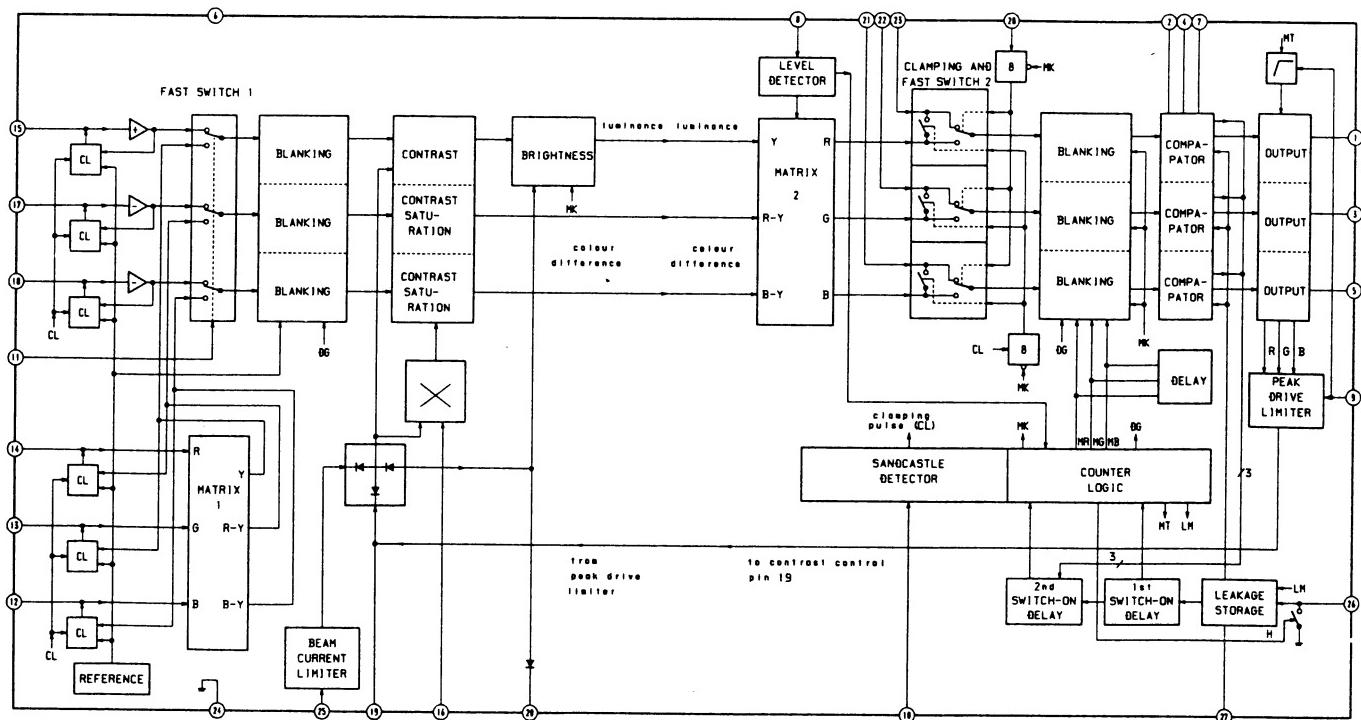
As to the voltage values shown by the mark ■ on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43
IC331 (2)	7.5	7.3	7.5	7.4
(4)	7.5	7.2	7.5	7.4
(5)	10	10	10	9.8
(6)	10	10	10	9.9
(7)	4.9	3.4	4.9	4.9
(8)	3.7	3	3.8	3.8
(9)	3.7	3	3.8	3.8
(10)	5	3.4	4.9	4.9
Q331 (B)	0.1	0.1	0.1	5.8
(C)	0.5	0.5	0.5	0
Q334 (B)	4.9	0.1	4.9	4.9
(E)	4.3	4.6	4.3	4.3
Q335 (B)	0.1	5.3	0.1	0.1
(E)	4.3	4.6	4.3	4.3

• WAVEFORMS B BOARD



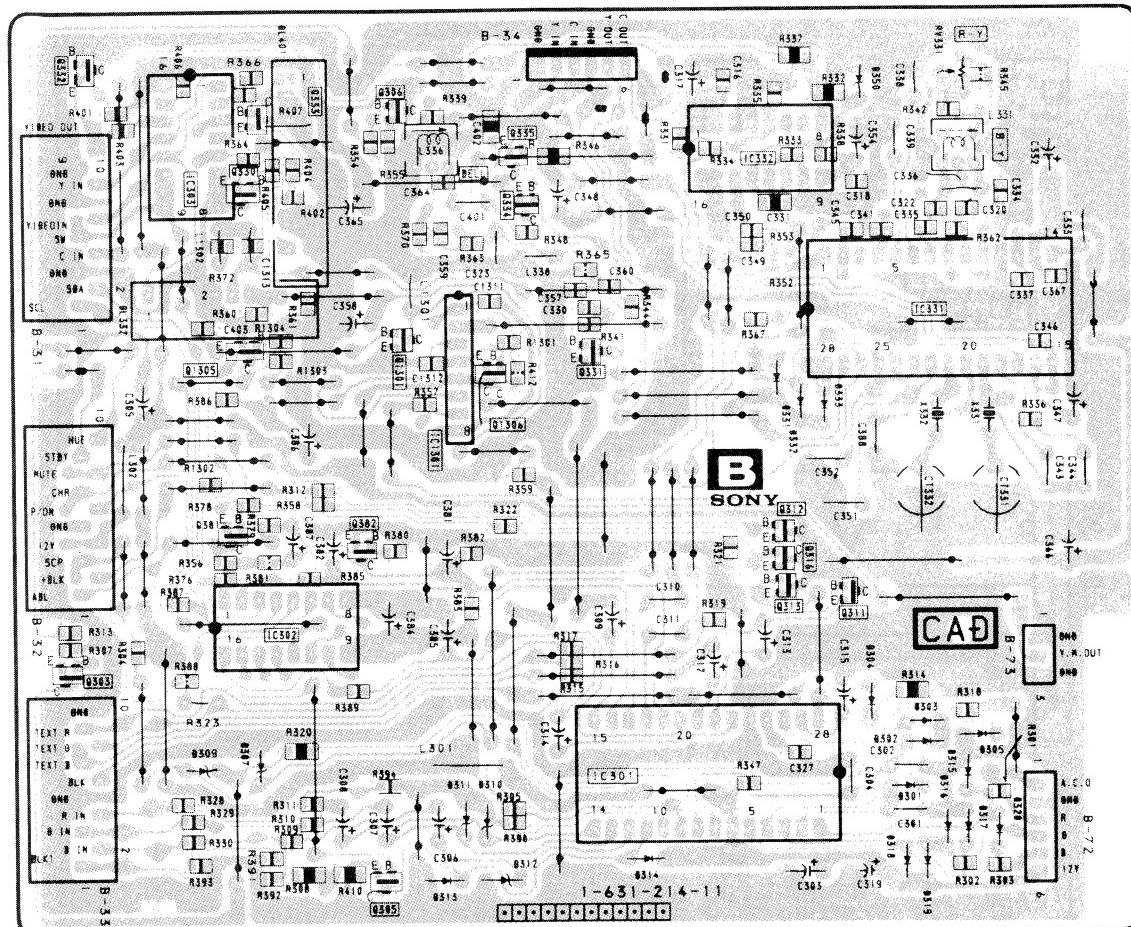
B BOARD IC301 TDA4580



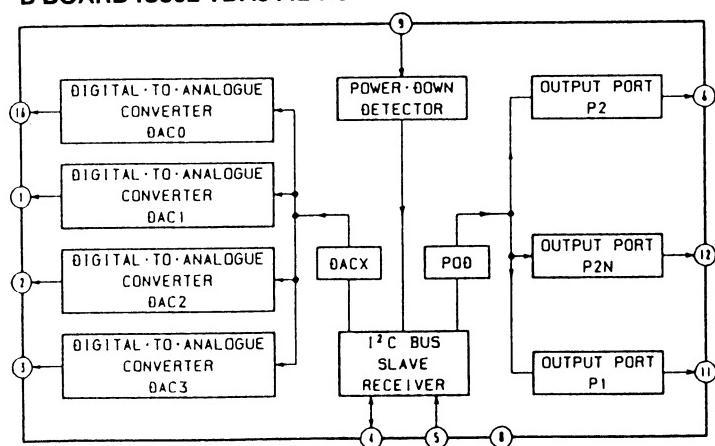
B

[CHROMA DECODER]

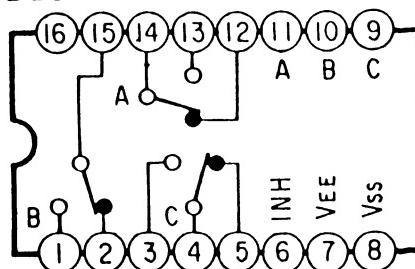
— B Board —



B BOARD IC302 TDA8442-N3



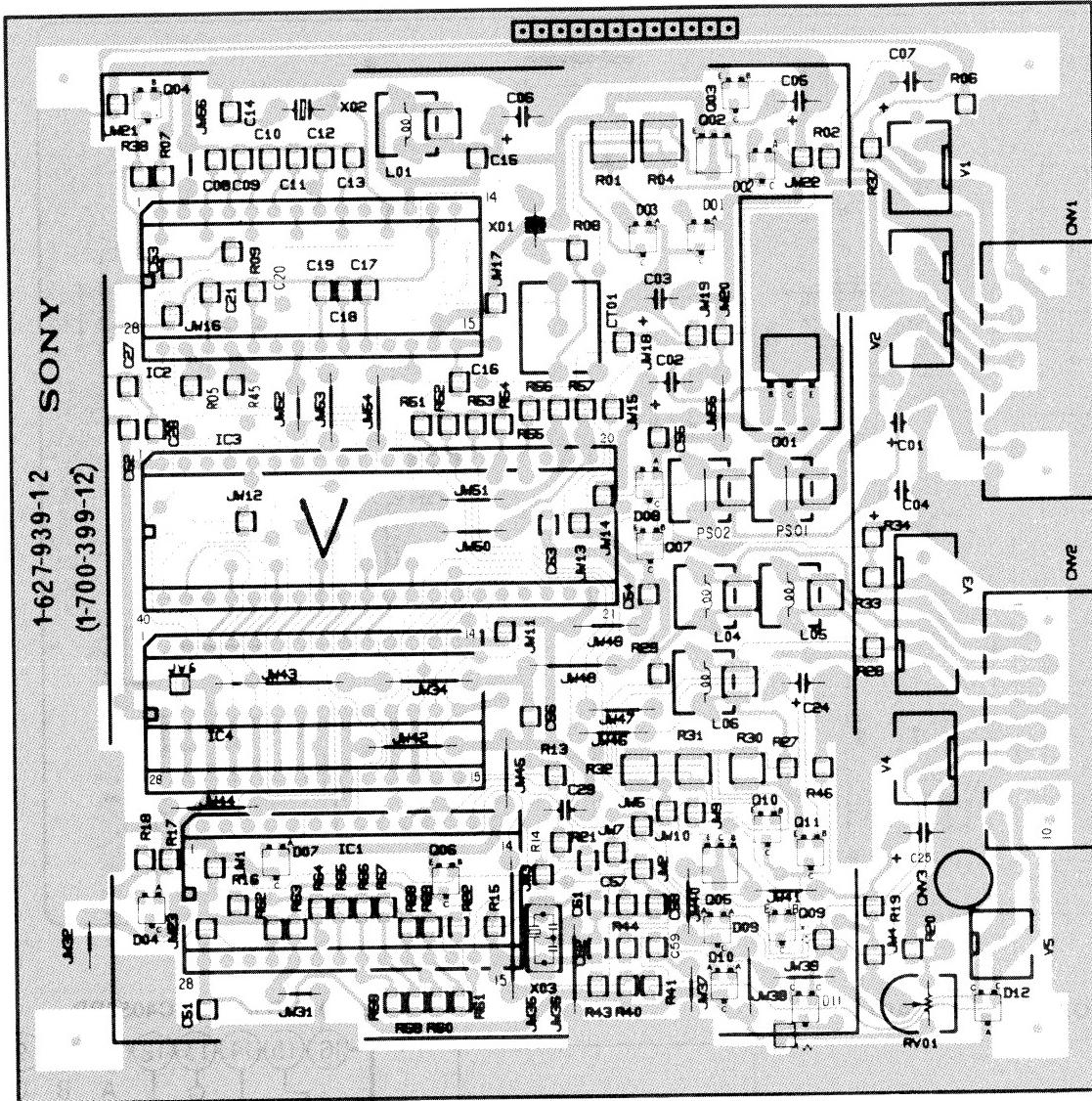
B BOARD IC303 TC4053BP



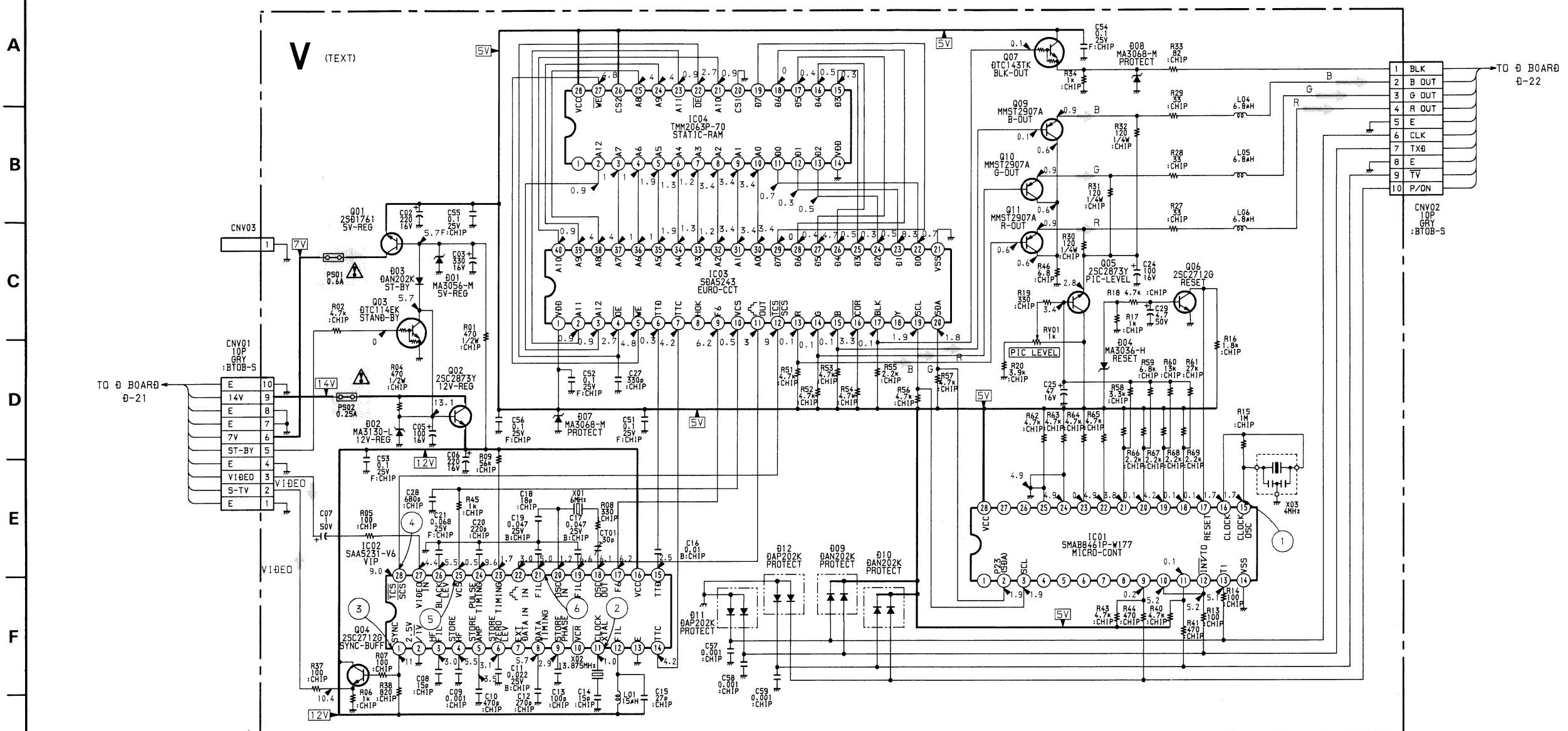
V [TEXT]

VM [VM AMP]

— V Board —

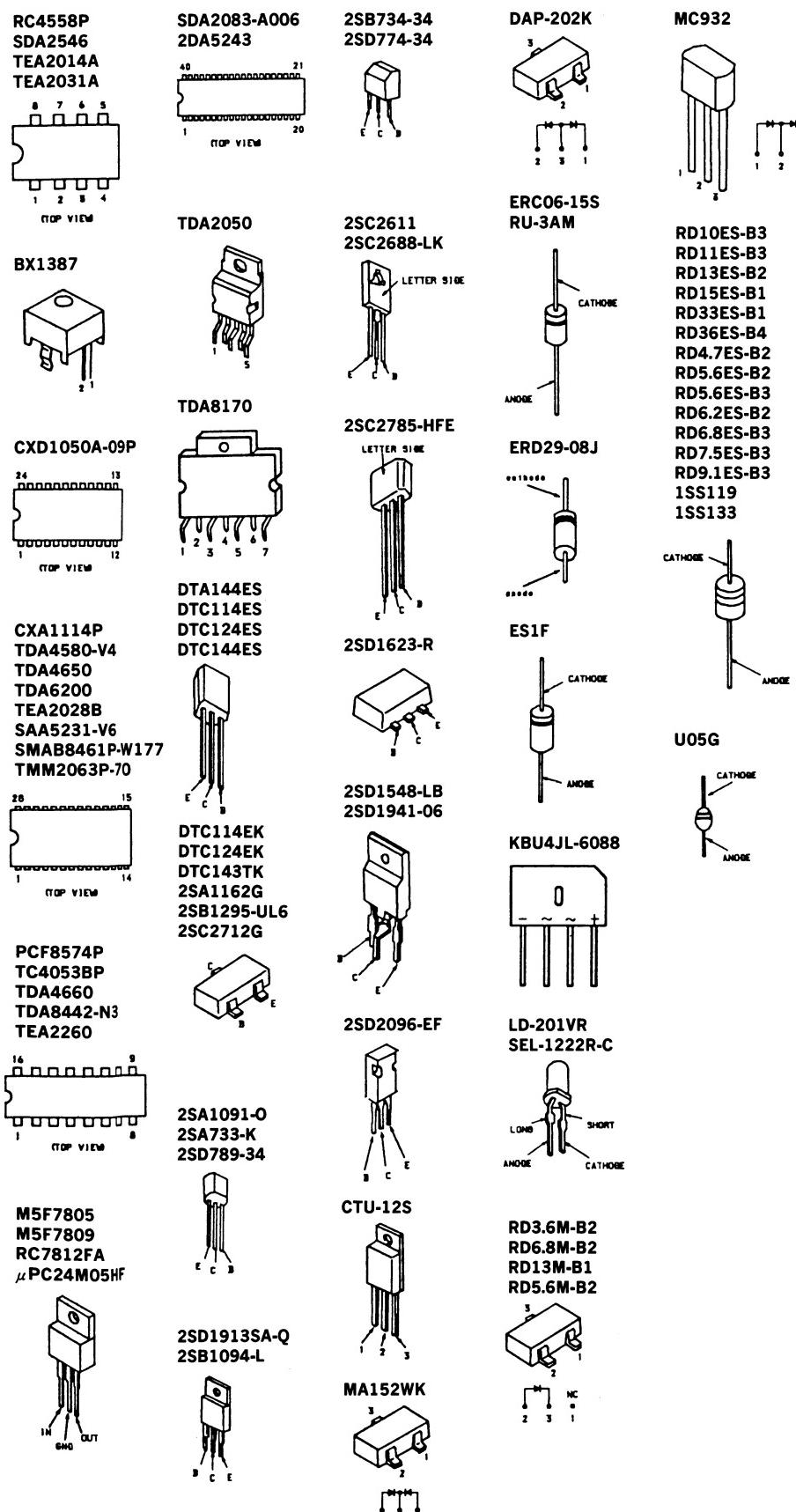


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



SECTION 6 EXPLODED VIEWS

5-4. SEMICONDUCTORS


NOTE:

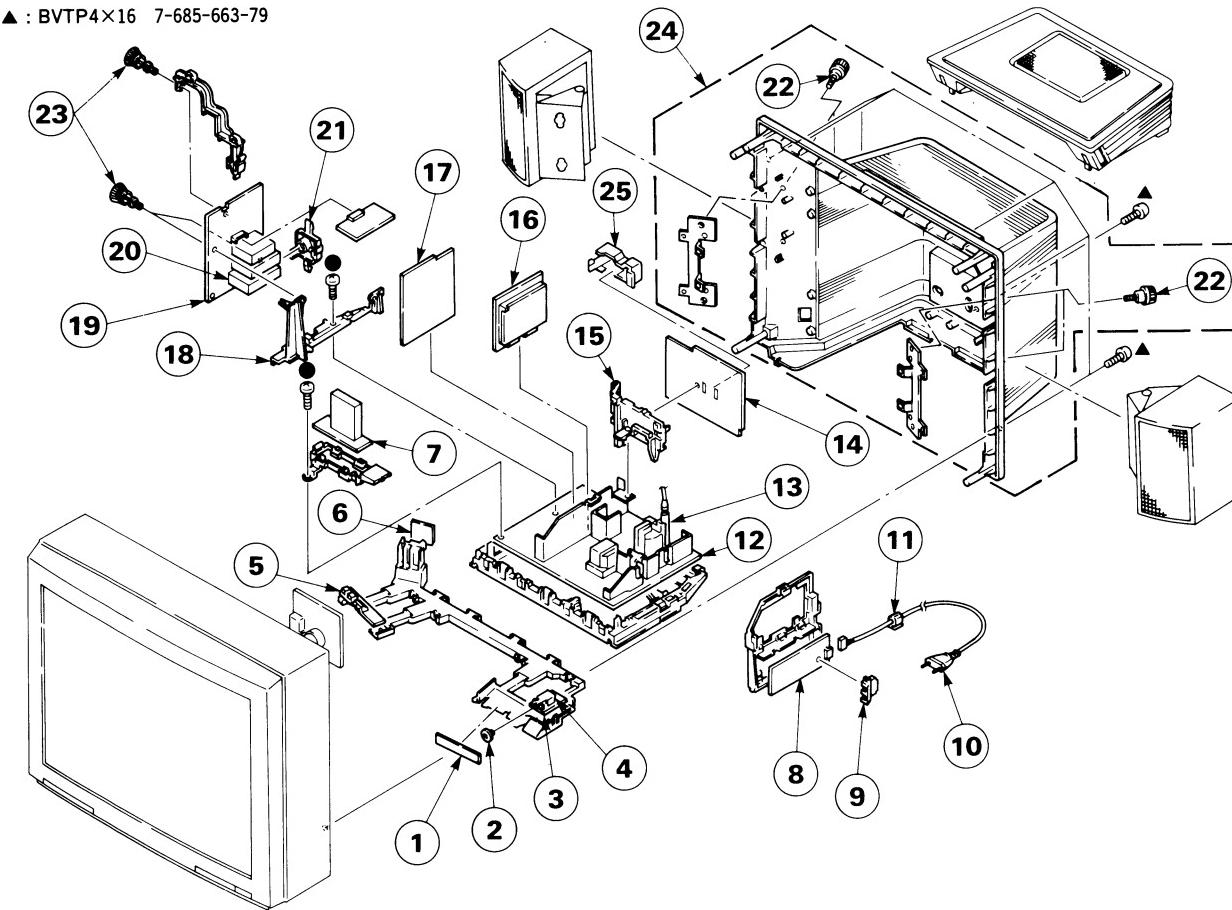
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

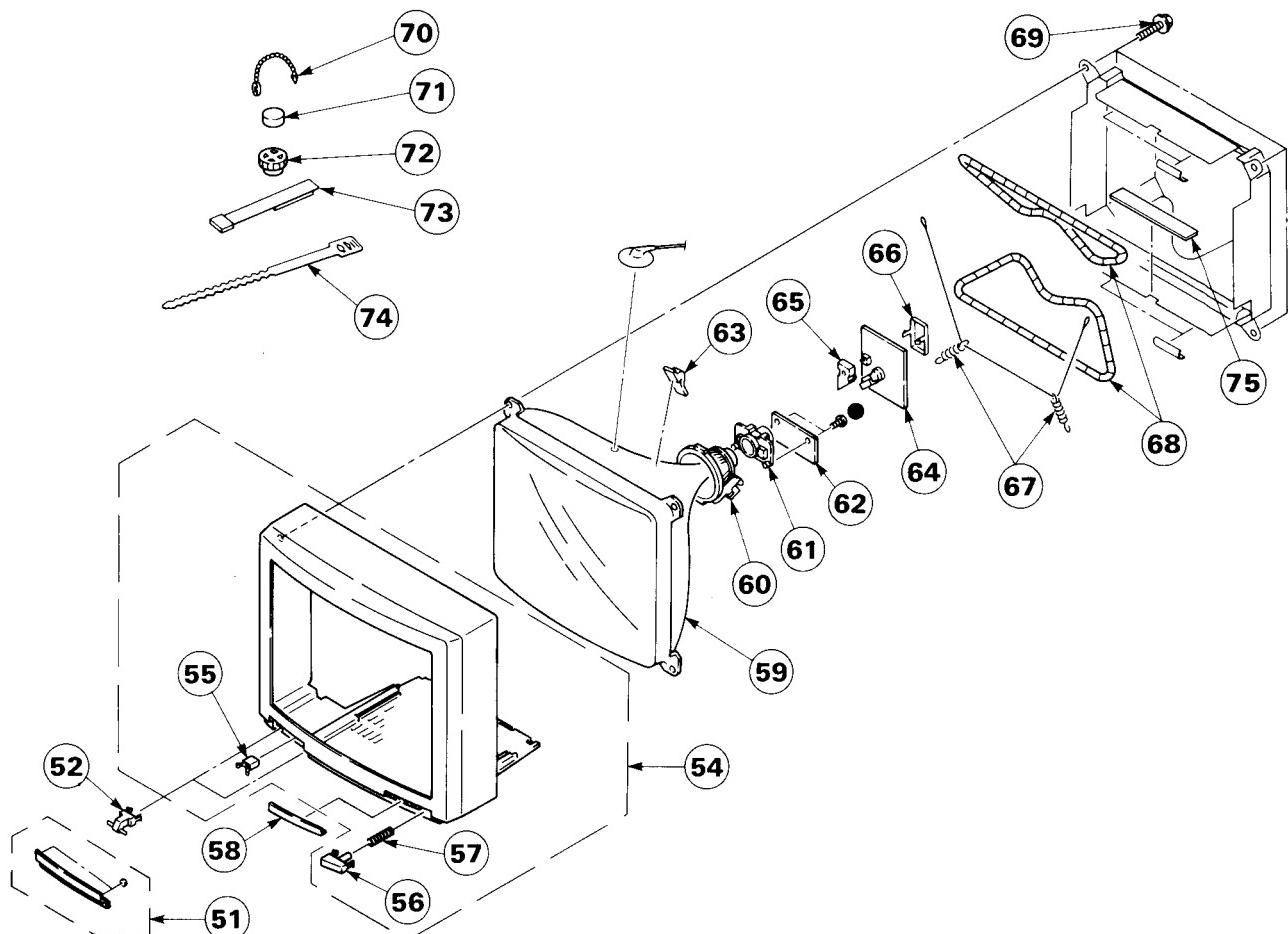
- : BVTP3×12 7-685-648-79
▲ : BVTP4×16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*1-631-221-11	H2 BOARD		14	*A-1651-001-A	J1 BOARD, COMPLETE	
2	4-386-611-01	COVER, SWITCH		15	*4-386-624-11	BRACKET, J	
3	*1-631-223-11	F2 BOARD		16	*A-1347-031-A	V BOARD, COMPLETE	
4	Δ .1-571-433-11	SWITCH, PUSH (AC POWER)		17	*A-1621-001-A	B BOARD, COMPLETE	
5	*1-631-220-11	H1 BOARD		18	*4-386-629-12	BRACKET, A	
6	*1-631-222-11	J2 BOARD		19	*A-1632-001-A	A BOARD, COMPLETE	
7	*1-631-217-12	Y BOARD		20	Δ .1-465-301-11	TUNER, ET (UV-816(PLL))	
8	*1-631-216-12	F1 BOARD		21	*4-386-617-01	HOLDER, TERMINAL	
9	*4-386-620-02	COVER, POWER		22	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
10	Δ .1-575-487-11	CORD, POWER (WITH NOISE FILTER)		23	4-386-618-01	RIVET, T TYPE	
11	Δ .4-389-201-02	HOLDER, AC CORD		24	X-4200-009-1	COVER ASSY, REAR	
12	*4-1642-001-A	D BOARD, COMPLETE		25	4-200-014-01	BRACKET, TERMINAL	
13	Δ .1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)					

6-2. PICTURE TUBE

● : BVTP3X12 7-685-648-79



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-001-2	LID ASSY, CONTROL		64	*A-1638-001-A	C BOARD, COMPLETE	
52	3-703-035-11	SHAFT, LID		65	*4-379-167-01	COVER (MAIN), CV	
54	X-4200-008-7	CABINET ASSY (WITH BEZEL ASSY)	55-57	66	*4-379-160-01	COVER (REAR LID), CV	
55	4-386-710-01	CATCHER, PUSH		67	4-369-318-00	SPRING, TENSION	
56	4-200-013-01	BUTTON, POWER		68	COIL, DEMAGNETIZATION		
57	4-329-112-21	SPRING		69	4-373-263-01	SCREW (M), PT	
58	4-200-017-12	WINDOW, ORNAMENTAL		70	4-308-870-00	CLIP, LEAD WIRE	
59	Δ .8-733-821-05	PICTURE TUBE (A68JYK10X)		71	1-452-032-00	MAGNET, DISK; 10MM ϕ	
60	Δ .1-451-313-22	DEFLECTION YOKE (Y29FXA)		72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
61	Δ .1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
62	*1-631-226-11	VM BOARD		74	3-701-007-00	BAND, BINDING	
63	3-703-961-01	SPACER, DY		75	4-389-291-01	CUSHION	

V

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

- MF : μF , PF : $\mu\mu\text{F}$
- MMH : mH, UH : μH

The components identified by shading and mark **A** are critical for safety.

Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
	*A-1347-031-A	V BOARD, COMPLETE	*****					
C02	1-124-120-11	ELECT	220MF	20%	16V	D08	8-719-106-17	DIODE RD6.8M-B2
C03	1-124-119-00	ELECT	330MF	20%	16V	D09	8-719-400-18	DIODE MA152WK
C05	1-126-101-11	ELECT	100MF	20%	16V	D10	8-719-400-18	DIODE MA152WK
C06	1-124-120-11	ELECT	220MF	20%	16V	D11	8-719-914-44	DIODE DAP202K
C07	1-124-791-11	ELECT	1MF	20%	50V	D12	8-719-914-44	DIODE DAP202K
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50V			<DIODE>
C09	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V			
C10	1-163-133-00	CERAMIC CHIP	470PF	5%	50V			
C11	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	IC1	8-759-986-92	IC MAR-8461P-W177
C12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	IC2	8-759-972-96	IC SAA5231-V6
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC3	8-759-032-98	IC SDA5243
C14	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	IC4	8-759-230-68	IC TMM2063P-70
C15	1-163-103-00	CERAMIC CHIP	27PF	5%	50V			<IC>
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V			
C17	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V			
C18	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	L01	1-408-411-00	INDUCTOR 15UH
C19	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	L04	1-408-407-00	INDUCTOR 6.8UH
C20	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	L05	1-408-407-00	INDUCTOR 6.8UH
C21	1-163-833-00	CERAMIC CHIP	0.068MF		25V	L06	1-408-407-00	INDUCTOR 6.8UH
C24	1-126-101-11	ELECT	100MF	20%	16V			<COIL>
C25	1-124-477-11	ELECT	47MF	20%	16V			
C27	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	PS01 A.1-532-679-91	LINK, IC (ICP-N15) 0.6A	
C28	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	PS02 A.1-532-727-91	LINK, IC 0.25A	
C29	1-124-927-11	ELECT	4.7MF	20%	50V			
C51	1-163-038-00	CERAMIC CHIP	0.1MF		25V			<IC LINK>
C52	1-163-038-00	CERAMIC CHIP	0.1MF		25V			
C53	1-163-038-00	CERAMIC CHIP	0.1MF		25V	Q3	8-729-900-53	TRANSISTOR DTC114EK
C54	1-163-038-00	CERAMIC CHIP	0.1MF		25V	Q01	8-729-107-26	TRANSISTOR 2SD1585-K
C55	1-163-038-00	CERAMIC CHIP	0.1MF		25V	Q02	8-729-807-50	TRANSISTOR 2SD1623-R
C56	1-163-038-00	CERAMIC CHIP	0.1MF		25V	Q04	8-729-271-22	TRANSISTOR 2SC2712-G
C57	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	Q05	8-729-807-50	TRANSISTOR 2SP1623-R
C58	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	Q06	8-729-271-22	TRANSISTOR 2SC2712-G
C59	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	Q07	8-729-900-98	TRANSISTOR DTC143TK
						Q09	8-729-807-87	TRANSISTOR 2SB1295-UL6
						Q10	8-729-807-87	TRANSISTOR 2SB1295-UL6
						Q11	8-729-807-87	TRANSISTOR 2SB1295-UL6
								<TRANSISTOR>
CNV01	*1-565-393-11	CONNECTOR, BOARD TO BOARD						
CNV02	*1-565-393-11	CONNECTOR, BOARD TO BOARD						
CNV03	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P						
								<RESISTOR>
						JW1	1-216-295-00	METAL GLAZE 0 5% 1/10W
						JW2	1-216-295-00	METAL GLAZE 0 5% 1/10W
						JW3	1-216-295-00	METAL GLAZE 0 5% 1/10W
						JW4	1-216-295-00	METAL GLAZE 0 5% 1/10W
						JW5	1-216-295-00	METAL GLAZE 0 5% 1/10W
CT01	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)						

V B

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
JW6	1-216-295-00	METAL GLAZE	0	5%	1/10W	R63	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
JW7	1-216-295-00	METAL GLAZE	0	5%	1/10W	R64	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
JW8	1-216-295-00	METAL GLAZE	0	5%	1/10W	R65	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
JW9	1-216-295-00	METAL GLAZE	0	5%	1/10W	R66	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JW10	1-216-295-00	METAL GLAZE	0	5%	1/10W	R67	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JW11	1-216-295-00	METAL GLAZE	0	5%	1/10W	R68	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JW12	1-216-295-00	METAL GLAZE	0	5%	1/10W	R69	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JW13	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW14	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW15	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW16	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW17	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW18	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW19	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW20	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW21	1-216-295-00	METAL GLAZE	0	5%	1/10W	X01	1-567-162-00	OSCILLATOR, CRYSTAL			
JW22	1-216-295-00	METAL GLAZE	0	5%	1/10W	X02	1-567-495-11	OSCILLATOR, CRYSTAL			
JW23	1-216-295-00	METAL GLAZE	0	5%	1/10W	X03	1-577-082-11	VIBRATOR, CERAMIC			
JW24	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JW25	1-216-295-00	METAL GLAZE	0	5%	1/10W						
R01	1-218-326-11	METAL GLAZE	470	5%	1/2W						
R02	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W						
R04	1-218-326-11	METAL GLAZE	470	5%	1/2W						
R05	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R06	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
R07	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R08	1-216-037-00	METAL GLAZE	330	5%	1/10W						
R09	1-216-091-00	METAL GLAZE	56K	5%	1/10W						
R13	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R14	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R15	1-216-121-00	METAL GLAZE	1M	5%	1/10W	C301	1-106-228-00	MYLAR	0.22MF	10%	100V
R16	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	C302	1-106-228-00	MYLAR	0.22MF	10%	100V
R17	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C303	1-124-122-11	ELECT	100MF	20%	50V
R18	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C304	1-106-228-00	MYLAR	0.22MF	10%	100V
R19	1-216-037-00	METAL GLAZE	330	5%	1/10W	C305	1-124-119-00	ELECT	330MF	20%	16V
R20	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	C306	1-124-902-00	ELECT	0.47MF	20%	50V
R27	1-216-013-00	METAL GLAZE	33	5%	1/10W	C307	1-124-902-00	ELECT	0.47MF	20%	50V
R28	1-216-013-00	METAL GLAZE	33	5%	1/10W	C308	1-124-902-00	ELECT	0.47MF	20%	50V
R29	1-216-013-00	METAL GLAZE	33	5%	1/10W	C309	1-124-902-00	ELECT	0.47MF	20%	50V
R30	1-218-325-11	METAL GLAZE	120	5%	1/4W	C310	1-106-220-00	MYLAR	0.1MF	10%	100V
R31	1-218-325-11	METAL GLAZE	120	5%	1/4W	C311	1-106-220-00	MYLAR	0.1MF	10%	100V
R32	1-218-325-11	METAL GLAZE	120	5%	1/4W	C312	1-124-902-00	ELECT	0.47MF	20%	50V
R33	1-216-023-00	METAL GLAZE	82	5%	1/10W	C313	1-124-902-00	ELECT	0.47MF	20%	50V
R34	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C314	1-124-902-00	ELECT	0.47MF	20%	50V
R37	1-216-025-00	METAL GLAZE	100	5%	1/10W	C315	1-124-791-11	ELECT	1MF	20%	50V
R38	1-216-047-00	METAL GLAZE	820	5%	1/10W	C316	1-163-038-00	CERAMIC CHIP	0.1MF		
R40	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C317	1-124-910-11	ELECT	47MF	20%	50V
R41	1-216-041-00	METAL GLAZE	470	5%	1/10W	C318	1-163-038-00	CERAMIC CHIP	0.1MF		
R43	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C320	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R44	1-216-041-00	METAL GLAZE	470	5%	1/10W	C322	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R45	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C323	1-102-947-00	CERAMIC	10PF	0.5PF	50V
R46	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	C327	1-164-232-11	CERAMIC CHIP	0.01MF		
R51	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C330	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
R52	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C331	1-163-077-00	CERAMIC CHIP	0.1MF		
R53	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C332	1-126-103-11	ELECT	470MF	20%	16V
R54	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C333	1-106-375-12	MYLAR	0.022MF	10%	250V
R55	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C334	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
R56	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C335	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
R57	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C336	1-102-816-00	CERAMIC	120PF	5%	50V
R58	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C337	1-164-232-11	CERAMIC CHIP	0.01MF		
R59	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C338	1-106-220-00	MYLAR	0.1MF	10%	100V
R60	1-216-076-00	METAL GLAZE	13K	5%	1/10W	C339	1-106-220-00	MYLAR	0.1MF	10%	100V
R61	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C341	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
R62	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C343	1-106-383-00	MYLAR	0.047MF	10%	100V
						C344	1-130-783-00	MYLAR	0.33MF	10%	100V

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C345	1-163-123-00	CERAMIC CHIP 180PF	5%	50V			
C346	1-163-033-00	CERAMIC CHIP 0.022MF		50V			
C347	1-124-791-11	ELECT 1MF	20%	50V			
C348	1-124-791-11	ELECT 1MF	20%	50V			
C349	1-164-232-11	CERAMIC CHIP 0.01MF		50V			
C350	1-164-232-11	CERAMIC CHIP 0.01MF		50V			
C351	1-106-375-12	MYLAR 0.022MF	10%	250V			
C352	1-106-375-12	MYLAR 0.022MF	10%	250V			
C353	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V			
C354	1-124-910-11	ELECT 47MF	20%	50V			
C357	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
C358	1-124-917-11	ELECT 33MF	20%	50V			
C359	1-163-103-00	CERAMIC CHIP 27PF	5%	50V			
C360	1-164-232-11	CERAMIC CHIP 0.01MF		50V			
C364	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			
C365	1-124-910-11	ELECT 47MF	20%	50V			
C366	1-126-103-11	ELECT 470MF	20%	16V			
C367	1-164-232-11	CERAMIC CHIP 0.01MF		50V			
C381	1-124-902-00	ELECT 0.47MF	20%	50V			
C382	1-124-927-11	ELECT 4.7MF	20%	50V			
C384	1-124-910-11	ELECT 47MF	20%	50V			
C385	1-124-927-11	ELECT 4.7MF	20%	50V			
C386	1-124-927-11	ELECT 4.7MF	20%	50V			
C387	1-124-791-11	ELECT 1MF	20%	50V			
C388	1-106-220-00	MYLAR 0.1MF	10%	100V			
C401	1-101-361-00	CERAMIC 150PF	5%	50V			
C402	1-163-197-00	CERAMIC CHIP 470PF	5%	50V			
C403	1-164-232-11	CERAMIC CHIP 0.01MF		50V			
C1311	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			
C1312	1-163-101-00	CERAMIC CHIP 22PF	5%	50V			
C1313	1-102-953-00	CERAMIC 18PF	5%	50V			
<TRIMMER>							
CT331	1-141-181-11	CAP, TRIMMER					
CT332	1-141-181-11	CAP, TRIMMER					
<DIODE>							
D301	8-719-911-19	DIODE ISS119					
D302	8-719-911-19	DIODE ISS119					
D303	8-719-911-19	DIODE ISS119					
D304	8-719-911-19	DIODE ISS119					
D305	8-719-911-19	DIODE ISS119					
D307	8-719-110-23	DIODE RD11ES-B3					
D308	8-719-800-76	DIODE ISS226					
D309	8-719-911-19	DIODE ISS119					
D310	8-719-110-23	DIODE RD11ES-B3					
D311	8-719-110-23	DIODE RD11ES-B3					
D312	8-719-110-23	DIODE RD11ES-B3					
D313	8-719-911-19	DIODE ISS119					
D314	8-719-911-19	DIODE ISS119					
D315	8-719-911-19	DIODE ISS119					
D316	8-719-911-19	DIODE ISS119					
D317	8-719-911-19	DIODE ISS119					
D318	8-719-911-19	DIODE ISS119					
D319	8-719-911-19	DIODE ISS119					
D320	8-719-911-19	DIODE ISS119					
D331	8-719-911-19	DIODE ISS119					
D332	8-719-911-19	DIODE ISS119					
D333	8-719-911-19	DIODE ISS119					
D350	8-719-109-90	DIODE RD5.6ES-B3					
<RESISTOR>							
R301	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R302	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R303	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R304	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R308	1-216-184-00	METAL GLAZE	270	5%	1/8W		
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R312	1-216-033-00	METAL GLAZE	220	5%	1/10W		
R313	1-216-081-00	METAL GLAZE	22K	5%	1/10W		
R314	1-216-182-00	METAL GLAZE	220	5%	1/8W		
R315	1-216-027-00	METAL GLAZE	120	5%	1/10W		
R316	1-216-027-00	METAL GLAZE	120	5%	1/10W		
R317	1-216-027-00	METAL GLAZE	120	5%	1/10W		

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

B F1

The components identified by shading and mark are critical for safety.
Replace only with part number specified.

F2 A C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*1-631-223-11	F2 BOARD *****			R108	1-249-432-11	CARBON	18K 5% 1/4W
				R110	1-249-429-11	CARBON	10K 5% 1/4W
*1-566-664-11	PIN, CONNECTOR 4P			R111	1-249-423-11	CARBON	3.3K 5% 1/4W
				R116	1-249-404-00	CARBON	82 5% 1/4W
				R118	1-249-435-11	CARBON	33K 5% 1/4W
				R128	1-249-406-11	CARBON	120 5% 1/4W
				R129	1-249-421-11	CARBON	2.2K 5% 1/4W
				R130	1-249-421-11	CARBON	2.2K 5% 1/4W
				R157	1-249-417-11	CARBON	1K 5% 1/4W
				R158	1-249-409-11	CARBON	220 5% 1/4W
				R159	1-249-409-11	CARBON	220 5% 1/4W
				R161	1-249-437-11	CARBON	47K 5% 1/4W
				R162	1-249-440-11	CARBON	82K 5% 1/4W
				R163	1-249-440-11	CARBON	82K 5% 1/4W
				R164	1-249-430-11	CARBON	12K 5% 1/4W
				R165	1-249-430-11	CARBON	12K 5% 1/4W
				R167	1-249-422-11	CARBON	2.7K 5% 1/4W
				R168	1-249-437-11	CARBON	47K 5% 1/4W
				R169	1-249-422-11	CARBON	2.7K 5% 1/4W
				R181	1-249-417-11	CARBON	1K 5% 1/4W
				R182	1-249-425-11	CARBON	4.7K 5% 1/4W
				R193	1-249-429-11	CARBON	10K 5% 1/4W
				R194	1-249-401-11	CARBON	47 5% 1/4W
				R195	1-249-401-11	CARBON	47 5% 1/4W
							<IF BLOCK>
				S1F102	1-464-964-12	IF BLOCK (IFG-5.5S)	
				V1F101	1-466-154-13	IF BLOCK (IFG-389S)	
							<TUNER>
				TU101	Δ1-465-301-11	TUNER, ET (UV-816(PLL))	

				*A-1638-001-A	C BOARD, COMPLETE *****		
				*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
				*1-568-878-61	PIN, CONNECTOR 3P		
				*1-568-881-51	PIN, CONNECTOR 6P		
				*4-379-160-01	COVER (REAR LID), CV		
				*4-379-167-01	COVER (MAIN), CV		
				*4-386-664-01	SPRING		
							<CONNECTOR>
				C71	*1-506-371-00	PIN, CONNECTOR 2P	
							<CAPACITOR>
				C703	1-102-980-00	CERAMIC	270PF 5% 50V
				C704	1-102-116-00	CERAMIC	680PF 10% 50V
				C705	1-102-978-00	CERAMIC	220PF 5% 50V
				C706	1-102-116-00	CERAMIC	680PF 10% 50V
				C707	1-162-116-00	CERAMIC	680PF 10% 2KV
				C708	1-162-114-00	CERAMIC	0.0047MF 2KV
				C709	1-102-116-00	CERAMIC	680PF 10% 50V
				C710	1-123-947-00	ELECT	10MF 20% 250V
				C711	1-101-880-00	CERAMIC	47PF 5% 50V
				C712	1-102-980-00	CERAMIC	270PF 5% 50V
				C714	1-124-360-00	ELECT	1000MF 20% 16V
				C716	1-162-622-11	CERAMIC	330PF 10% 400V
				C717	1-102-114-00	CERAMIC	470PF 10% 50V
				C718	1-102-114-00	CERAMIC	470PF 10% 50V
				C719	1-102-114-00	CERAMIC	470PF 10% 50V

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C **D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<DIODE>											
D701	8-719-110-14	DIODE RD9.1ES-B3		R730	1-249-401-11	CARBON	47 5% 1/4W				
D702	8-719-911-19	DIODE ISS119		R731	1-249-423-11	CARBON	3.3K 5% 1/4W				
D703	8-719-911-19	DIODE ISS119		R732	1-249-415-11	CARBON	680 5% 1/4W				
D704	8-719-911-19	DIODE ISS119		R733	1-249-415-11	CARBON	680 5% 1/4W				
D705	8-719-911-19	DIODE ISS119		R734	1-249-405-11	CARBON	100 5% 1/4W				
D706	8-719-911-19	DIODE ISS119		R735	1-215-493-00	METAL	1M 1% 1/6W				
D707	8-719-911-19	DIODE ISS119		R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W F				
D708	8-719-911-19	DIODE ISS119		R737	1-215-485-00	METAL	470K 1% 1/6W				
D709	8-719-911-19	DIODE ISS119		R739	1-249-417-11	CARBON	1K 5% 1/4W				
D710	8-719-911-19	DIODE ISS119		<VARIABLE RESISTOR>							
D711	8-719-300-33	DIODE RU-3AM		RV701	1-230-641-11	RES, ADJ., METAL GLAZE	2.2M				
D713	8-719-911-19	DIODE ISS119		RV702	1-230-619-11	RES, ADJ., METAL GLAZE	110M				
<JACK>											
J701	1-526-798-51	SOCKET, PICTURE TUBE		*A-1642-001-A	D BOARD, COMPLETE						
<COIL>											
L704	1-410-878-21	INDUCTOR	33UR	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P						
<TRANSISTOR>											
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P						
Q703	8-729-326-11	TRANSISTOR 2SC2611		*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)						
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		*1-564-505-11	PLUG, CONNECTOR 2P						
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR						
Q706	8-729-326-11	TRANSISTOR 2SC2611		*1-565-395-11	PIN, CONNECTOR 3P						
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)						
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P						
Q709	8-729-326-11	TRANSISTOR 2SC2611		*1-568-536-11	PLUG (MINIATURE DY) 6P						
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		*1-568-878-51	PIN, CONNECTOR 3P						
<RESISTOR>											
R704	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	*1-568-879-61	PIN, CONNECTOR 4P						
R705	1-202-824-00	SOLID	3.3K 10% 1/2W	*1-568-879-71	PIN, CONNECTOR 4P						
R706	1-249-409-11	CARBON	220 5% 1/4W	*1-568-881-61	PIN, CONNECTOR 6P						
R707	1-249-412-11	CARBON	390 5% 1/4W	*1-568-882-51	PIN, CONNECTOR 7P						
R708	1-249-401-11	CARBON	47 5% 1/4W	*1-568-882-71	PIN, CONNECTOR 7P						
R709	1-202-844-00	SOLID	330K 10% 1/2W	<CAPACITOR>							
R710	1-215-465-00	METAL	68K 1% 1/6W	C002	1-102-074-00	CERAMIC	0.001MF 10% 50V				
R712	1-249-417-11	CARBON	1K 5% 1/4W	C003	1-126-233-11	ELECT	22MF 20% 50V				
R713	1-215-471-00	METAL	120K 1% 1/6W	C004	1-124-120-11	ELECT	220MF 20% 16V				
R714	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C005	1-124-791-11	ELECT	1MF 20% 50V				
R715	1-202-824-00	SOLID	3.3K 10% 1/2W	C006	1-102-978-00	CERAMIC	220PF 5% 50V				
R716	1-249-409-11	CARBON	220 5% 1/4W	C007	1-102-978-00	CERAMIC	220PF 5% 50V				
R717	1-249-415-11	CARBON	680 5% 1/4W	C008	1-101-880-00	CERAMIC	47PF 5% 50V				
R718	1-202-814-11	SOLID	33K 10% 1/2W	C009	1-101-880-00	CERAMIC	47PF 5% 50V				
R719	1-249-401-11	CARBON	47 5% 1/4W	C010	1-124-120-11	ELECT	220MF 20% 16V				
R720	1-249-423-11	CARBON	3.3K 5% 1/4W	C011	1-101-004-00	CERAMIC	0.01MF 20% 50V				
R721	1-202-842-11	SOLID	220K 10% 1/2W	C012	1-123-875-11	ELECT	10MF 20% 50V				
R722	1-202-848-00	SOLID	680K 10% 1/2W	C013	1-106-220-00	MYLAR	0.1MF 10% 100V				
R723	1-249-417-11	CARBON	1K 5% 1/4W	C014	1-106-220-00	MYLAR	0.1MF 10% 100V				
R724	1-202-846-00	SOLID	470K 10% 1/2W	C015	1-124-902-00	ELECT	0.47MF 20% 50V				
R725	1-202-838-00	SOLID	100K 10% 1/2W	C016	1-101-361-00	CERAMIC	150PF 5% 50V				
R726	1-202-824-00	SOLID	3.3K 10% 1/2W	C017	1-106-220-00	MYLAR	0.1MF 10% 100V				
R727	1-249-409-11	CARBON	220 5% 1/4W	C018	1-102-980-00	CERAMIC	270PF 5% 50V				
R728	1-216-342-11	METAL OXIDE	0.27 5% 1W F	C019	1-106-383-00	MYLAR	0.047MF 10% 100V				
R729	1-249-416-11	CARBON	820 5% 1/4W	C020	1-124-917-11	ELECT	33MF 20% 50V				
				C021	1-102-973-00	CERAMIC	100PF 5% 50V				
				C022	1-101-004-00	CERAMIC	0.01MF 50V				

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

D

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C023	1-102-973-00	CERAMIC	100PF	5%	50V	C617	1-124-972-11	ELECT	1.5MF	20%	100V
C024	1-102-973-00	CERAMIC	100PF	5%	50V	C618	1-162-115-00	CERAMIC	330PF	10%	2KV
C025	1-102-973-00	CERAMIC	100PF	5%	50V	C619	1-124-556-11	ELECT	2200MF	20%	16V
C027	1-124-910-11	ELECT	47MF	20%	50V	C620	1-136-173-00	FILM	0.47MF	5%	50V
C251	1-124-791-11	ELECT	1MF	20%	50V	C621	1-124-347-00	ELECT	100MF	20%	160V
C252	1-126-233-11	ELECT	22MF	20%	50V	C622	1-124-556-11	ELECT	2200MF	20%	16V
C253	1-102-074-00	CERAMIC	0.001MF	10%	50V	C623	1-124-910-11	ELECT	47MF	20%	50V
C254	1-106-220-00	MYLAR	0.1MF	10%	100V	C624	1-124-122-11	ELECT	100MF	20%	50V
C255	1-124-636-00	ELECT	3300MF	20%	25V	C625	1-124-360-00	ELECT	1000MF	20%	16V
C261	1-124-791-11	ELECT	1MF	20%	50V	C626	1-123-875-11	ELECT	10MF	20%	50V
C262	1-126-233-11	ELECT	22MF	20%	50V	C627	1-108-614-11	MYLAR	0.001MF	10%	100V
C263	1-102-074-00	CERAMIC	0.001MF	10%	50V	C628	1-162-116-00	CERAMIC	680PF	10%	2KV
C264	1-106-220-00	MYLAR	0.1MF	10%	100V	C631	1-124-910-11	ELECT	47MF	20%	50V
C265	1-124-564-11	ELECT	4700MF	20%	25V	C632	1-102-074-00	CERAMIC	0.001MF	10%	50V
C501	1-124-927-11	ELECT	4.7MF	20%	50V	C633	1-102-973-00	CERAMIC	100PF	5%	50V
C502	1-124-927-11	ELECT	4.7MF	20%	50V	C801	1-126-105-11	ELECT	1000MF	20%	35V
C503	1-106-371-00	MYLAR	0.015MF	10%	400V	C802	1-102-030-00	CERAMIC	330PF	10%	500V
C504	1-101-361-00	CERAMIC	150PF	5%	50V	C804	1-123-948-00	ELECT	22MF	20%	250V
C505	1-108-794-11	MYLAR	0.0015MF	5%	50V	C805	1-162-114-00	CERAMIC	0.0047MF	2KV	
C506	1-106-375-12	MYLAR	0.022MF	10%	250V	C806	1-106-220-00	MYLAR	0.1MF	10%	100V
C507	1-130-783-00	MYLAR	0.33MF	10%	100V	C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C508	1-106-375-12	MYLAR	0.022MF	10%	250V	C810	1-123-024-21	ELECT	33MF		160V
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	C811	1-136-113-00	FILM	2MF	5%	200V
C510	1-161-959-00	CERAMIC	22PF	10%	500V	C812	1-124-634-11	ELECT	1MF	20%	250V
C511	1-108-620-11	MYLAR	0.0033MF	10%	100V	C813	1-102-212-00	CERAMIC	820PF	10%	500V
C512	1-106-220-00	MYLAR	0.1MF	10%	100V	C814	Δ. 1-161-731-11	CERAMIC	0.001MF	10%	2KV
C513	1-102-978-00	CERAMIC	220PF	5%	50V	C815	1-136-540-11	FILM	0.82MF	5%	200V
C514	1-106-228-00	MYLAR	0.22MF	10%	100V	C817	1-136-591-11	FILM	0.017MF	3%	1.4KV
C515	1-124-791-11	ELECT	1MF	20%	50V	C818	1-136-759-11	FILM	0.039MF	10%	630V
C516	1-108-614-11	MYLAR	0.0001MF	10%	100V	C819	Δ. 1-161-731-11	CERAMIC	0.001MF	10%	2KV
C517	1-124-252-00	ELECT	0.33MF	20%	50V	C820	1-106-218-00	MYLAR	0.0082MF	10%	400V
C518	1-124-902-00	ELECT	0.47MF	20%	50V	C821	Δ. 1-162-134-51	CERAMIC	470PF	10%	2KV
C519	1-136-171-00	FILM	0.33MF	5%	50V	C822	1-102-114-00	CERAMIC	470PF	10%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V	C823	1-106-359-00	MYLAR	0.0047MF	10%	400V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V	C824	1-102-212-00	CERAMIC	820PF	10%	500V
C522	1-124-122-11	ELECT	100MF	20%	50V	C825	1-106-375-12	MYLAR	0.022MF	10%	250V
C523	1-108-614-11	MYLAR	0.001MF	10%	100V	<FILTER>					
C524	1-108-798-11	MYLAR	0.0033MF	5%	50V	<CONNECTOR>					
C525	1-102-973-00	CERAMIC	100PF	5%	50V	CF001 1-577-364-11 VIBRATOR, CERAMIC					
C526	1-102-951-00	CERAMIC	15PF	5%	50V	CF501 1-567-888-11 OSCILLATOR, CERAMIC					
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	D44 *1-568-881-51 PIN, CONNECTOR 6P					
C531	1-124-190-00	ELECT	680MF	10%	25V	<DIODE>					
C532	1-124-122-11	ELECT	100MF	20%	50V	D001	8-719-911-19	DIODE ISS119			
C533	1-106-216-00	MYLAR	0.068MF	10%	100V	D002	8-719-109-98	DIODE RD6.8ES-B3			
C534	1-124-120-11	ELECT	220MF	20%	16V	D003	8-719-911-19	DIODE ISS119			
C536	1-131-365-00	TANTALUM	10MF	10%	16V	D004	8-719-911-19	DIODE ISS119			
C537	1-124-791-11	ELECT	1MF	20%	50V	D005	8-719-109-89	DIODE RD5.6ES-B2			
C539	1-102-820-00	CERAMIC	330PF	5%	50V	D006	8-719-110-76	DIODE RD33ES-B1			
C593	1-102-820-00	CERAMIC	330PF	5%	50V	D007	8-719-911-19	DIODE ISS119			
C601	Δ. 1-161-964-61	CERAMIC	0.0047MF		250V	D009	8-719-109-89	DIODE RD5.6ES-B2			
C602	Δ. 1-161-964-61	CERAMIC	0.0047MF		250V	D010	8-719-109-93	DIODE RD6.2ES-B2			
C603	Δ. 1-161-964-61	CERAMIC	0.0047MF		250V	D011	8-719-109-93	DIODE RD6.2ES-B2			
C604	Δ. 1-125-318-11	ELECT(BLOCK)	220MF	20%	400V	D271	8-719-110-36	DIODE RD13ES-B2			
C605	1-124-510-11	ELECT	220MF	20%	35V	D272	8-719-911-19	DIODE ISS119			
C606	1-102-114-00	CERAMIC	470PF	10%	50V	D501	8-719-911-19	DIODE ISS119			
C607	1-130-834-00	MYLAR	1MF	10%	63V	D504	8-719-911-55	DIODE U05G			
C608	1-124-927-11	ELECT	4.7MF	20%	50V	D506	8-719-016-42	DIODE MC932			
C609	1-126-233-11	ELECT	22MF	20%	50V						
C611	1-124-910-11	ELECT	47MF	20%	50V						
C612	1-108-614-11	MYLAR	0.001MF	10%	100V						
C613	1-136-539-11	FILM	0.0022MF	3%	2KV						
C614	1-102-030-00	CERAMIC	330PF	10%	500V						
C615	1-124-557-11	ELECT	1000MF	20%	25V						
C616	1-102-030-00	CERAMIC	330PF	10%	500V						

The components identified by shading and mark Δ are critical for safety.
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D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D508	8-719-911-19	DIODE ISS119		L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
D509	8-719-911-19	DIODE ISS119		L606	1-421-013-00	COIL (HORIZONTAL CHOKER) 25UH	
D511	8-719-911-55	DIODE U05G		L607	1-410-671-31	INDUCTOR 47UH	
D512	8-719-911-55	DIODE U05G		L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	
D513	8-719-109-81	DIODE RD4.7ES-B2		L803	1-459-104-00	COIL, DUST CORE	
D514	8-719-911-19	DIODE ISS119		L804	1-408-239-00	INDUCTOR 4.7MMH	
D515	8-719-911-19	DIODE ISS119		L805 Δ	1-459-907-22	COIL, HORIZONTAL LINEARITY	
D601 Δ	8-719-946-90	DIODE KBU4JL-6088		L806	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	
D602	8-719-300-33	DIODE RU-3AM		L809	*1-420-872-00	COIL, AIR CORE	
D603	8-719-911-55	DIODE U05G		L810 Δ	1-421-794-21	TRANSFORMER, FERRITE (PMT)	
D604	8-719-911-55	DIODE U05G					
D605	8-719-911-55	DIODE U05G					
D606	8-719-300-33	DIODE RU-3AM					
D607	8-719-300-33	DIODE RU-3AM					
D608	8-719-300-33	DIODE RU-3AM					
D609	8-719-110-76	DIODE RD33ES-B1					
D610	8-719-300-59	DIODE CTU-12S					
D611	8-719-900-26	DIODE ERD29-08J					
D612	8-719-300-59	DIODE CTU-12S					
D613	8-719-300-33	DIODE RU-3AM					
D614	8-719-300-33	DIODE RU-3AM					
D616	8-719-109-93	DIODE RD6.2ES-B2					
D617	8-719-911-19	DIODE ISS119					
D618	8-719-109-89	DIODE RD5.6ES-B2					
D619	8-719-110-76	DIODE RD33ES-B1					
D620	8-719-016-42	DIODE MC932					
D621	8-719-110-76	DIODE RD33ES-B1					
D622	8-719-911-19	DIODE ISS119					
D623	8-719-911-19	DIODE ISS119					
D624	8-719-911-19	DIODE ISS119					
D630	8-719-110-39	DIODE RD15ES-B1					
D801	8-719-300-33	DIODE RU-3AM					
D802	8-719-300-33	DIODE RU-3AM					
D803	8-719-300-65	DIODE ES1F					
D804	8-719-911-55	DIODE U05G					
D805	8-719-911-55	DIODE U05G					
D806	8-719-945-80	DIODE ERC06-15S					
D807	8-719-945-80	DIODE ERC06-15S					
D808	8-719-900-26	DIODE ERD29-08J					
<IC>							
IC001	8-759-035-37	IC SDA2083-A006		Q001	8-729-900-89	TRANSISTOR DTC144ES	
IC002	8-752-332-82	IC CXD1050A-09P		Q002	8-729-900-65	TRANSISTOR DTA144ES	
IC003	8-759-945-58	IC RC4558P		Q003	8-729-173-38	TRANSISTOR 2SA733-K	
IC005	8-759-748-56	IC SDA2546		Q004	8-729-173-38	TRANSISTOR 2SA733-K	
IC251	8-759-988-94	IC TDA2050		Q005	8-729-900-89	TRANSISTOR DTC144ES	
<SPACER>							
4-201-023-01		SPACER, INSULATING; IC251		Q006	8-729-900-89	TRANSISTOR DTC144ES	
4-812-134-00		RIVET NYLON, 3.5; IC251		Q007	8-729-900-89	TRANSISTOR DTC144ES	
IC261	8-759-988-94	IC TDA2050		Q008	8-729-900-89	TRANSISTOR DTC144ES	
<RESISTOR>							
4-201-023-01		SPACER, INSULATING; IC261		Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
4-812-134-00		RIVET NYLON, 3.5; IC261		Q010	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC501	8-759-970-73	IC TEA2028R		Q251	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC502	8-759-944-57	IC TDA8170		Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC601	8-759-988-95	IC TEA2260		Q271	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC604	8-759-144-84	IC UPC24M05HF		Q502	8-729-173-38	TRANSISTOR 2SA733-K	
IC608	8-759-982-13	IC RC7812FA		Q505	8-729-140-96	TRANSISTOR 2SD774-34	
<COIL>							
L001	1-408-414-00	INDUCTOR 27UH		Q506	8-729-140-97	TRANSISTOR 2SB734-34	
L501	1-408-225-00	INDUCTOR 3.3UH		Q507	8-729-173-38	TRANSISTOR 2SA733-K	
L601	*1-420-872-00	COIL, AIR CORE		Q598	8-729-173-38	TRANSISTOR 2SA733-K	
L602	1-410-396-41	FERRITE BEAD INDUCTOR		Q601	8-729-111-67	TRANSISTOR 2SB1094-L	
L603	1-410-396-41	FERRITE BEAD INDUCTOR		Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
L604	1-410-671-31	INDUCTOR 47UH		Q603	8-729-111-67	TRANSISTOR 2SB1094-L	
<TRANSISTOR>							
Q001	8-729-900-89	TRANSISTOR DTC144ES		Q604	8-729-173-38	TRANSISTOR 2SA733-K	
Q002	8-729-900-65	TRANSISTOR DTA144ES		Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-173-38	TRANSISTOR 2SA733-K		Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q004	8-729-173-38	TRANSISTOR 2SA733-K		Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q005	8-729-900-89	TRANSISTOR DTC144ES		Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q006	8-729-900-89	TRANSISTOR DTC144ES		Q609	8-729-320-62	TRANSISTOR 2SD789-34	
Q007	8-729-900-89	TRANSISTOR DTC144ES		Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q008	8-729-900-89	TRANSISTOR DTC144ES		Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
<INDUCTOR>							
R001	1-249-413-11	CARBON 470 5% 1/4W					
R002	1-249-413-11	CARBON 470 5% 1/4W					
R003	1-249-417-11	CARBON JK 5% 1/4W					
R004	1-249-417-11	CARBON 1K 5% 1/4W					
R005	1-249-417-11	CARBON 1K 5% 1/4W					
R006	1-249-429-11	CARBON 10K 5% 1/4W					
R007	1-249-425-11	CARBON 4.7K 5% 1/4W					
R008	1-249-429-11	CARBON 10K 5% 1/4W					
R009	1-249-429-11	CARBON 10K 5% 1/4W					
R010	1-249-413-11	CARBON 470 5% 1/4W					
R011	1-249-425-11	CARBON 4.7K 5% 1/4W					
R012	1-249-417-11	CARBON 1K 5% 1/4W					
R013	1-249-429-11	CARBON 10K 5% 1/4W					
R014	1-249-428-11	CARBON 8.2K 5% 1/4W					

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R015	1-249-423-11	CARBON	3.3K 5% 1/4W	R254	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R016	1-249-435-11	CARBON	33K 5% 1/4W	R255	1-249-429-11	CARBON	10K 5% 1/4W
R017	1-249-436-11	CARBON	39K 5% 1/4W	R256	1-247-897-11	CARBON	560K 5% 1/4W
R018	1-249-440-11	CARBON	82K 5% 1/4W	R257	1-249-431-11	CARBON	15K 5% 1/4W
R019	1-249-417-11	CARBON	1K 5% 1/4W	R258	1-215-869-11	METAL OXIDE	1K 5% 1W F
R020	1-249-417-11	CARBON	1K 5% 1/4W	R259	1-249-425-11	CARBON	4.7K 5% 1/4W
R021	1-249-425-11	CARBON	4.7K 5% 1/4W	R261	1-249-425-11	CARBON	4.7K 5% 1/4W
R022	1-249-425-11	CARBON	4.7K 5% 1/4W	R262	1-249-412-11	CARBON	390 5% 1/4W
R023	1-249-410-11	CARBON	270 5% 1/4W	R263	1-249-429-11	CARBON	10K 5% 1/4W
R024	1-249-417-11	CARBON	1K 5% 1/4W	R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R025	1-249-405-11	CARBON	100 5% 1/4W	R265	1-249-429-11	CARBON	10K 5% 1/4W
R026	1-249-417-11	CARBON	1K 5% 1/4W	R266	1-247-897-11	CARBON	560K 5% 1/4W
R027	1-249-405-11	CARBON	100 5% 1/4W	R267	1-249-431-11	CARBON	15K 5% 1/4W
R028	1-249-405-11	CARBON	100 5% 1/4W	R268	1-215-869-11	METAL OXIDE	1K 5% 1W F
R029	1-249-429-11	CARBON	10K 5% 1/4W	R269	1-249-425-11	CARBON	4.7K 5% 1/4W
R030	1-249-429-11	CARBON	10K 5% 1/4W	R271	1-249-415-11	CARBON	680 5% 1/4W
R031	1-249-433-11	CARBON	22K 5% 1/4W	R272	1-249-429-11	CARBON	10K 5% 1/4W
R032	1-249-429-11	CARBON	10K 5% 1/4W	R273	1-249-429-11	CARBON	10K 5% 1/4W
R033	1-249-429-11	CARBON	10K 5% 1/4W	R500	1-247-897-11	CARBON	560K 5% 1/4W
R034	1-249-431-11	CARBON	15K 5% 1/4W	R501	1-249-413-11	CARBON	470 5% 1/4W
R035	1-249-433-11	CARBON	22K 5% 1/4W	R502	1-249-409-11	CARBON	220 5% 1/4W
R036	1-249-432-11	CARBON	18K 5% 1/4W	R503	1-249-410-11	CARBON	270 5% 1/4W
R037	1-249-425-11	CARBON	4.7K 5% 1/4W	R504	1-215-427-00	METAL OXIDE	1.8K 1% 1/6W
R038	1-249-422-11	CARBON	2.7K 5% 1/4W	R505	1-249-431-11	CARBON	15K 5% 1/4W
R039	1-249-433-11	CARBON	22K 5% 1/4W	R506	1-249-428-11	CARBON	8.2K 5% 1/4W
R040	1-249-431-11	CARBON	15K 5% 1/4W	R509	1-249-424-11	CARBON	3.9K 5% 1/4W
R041	1-249-429-11	CARBON	10K 5% 1/4W	R510	1-249-426-11	CARBON	5.6K 5% 1/4W
R042	1-249-417-11	CARBON	1K 5% 1/4W	R514	1-249-409-11	CARBON	220 5% 1/4W
R043	1-249-413-11	CARBON	470 5% 1/4W	R515	1-249-423-11	CARBON	3.3K 5% 1/4W
R044	1-249-441-11	CARBON	100K 5% 1/4W	R517	1-249-429-11	CARBON	10K 5% 1/4W
R045	1-249-423-11	CARBON	3.3K 5% 1/4W	R518	1-249-437-11	CARBON	47K 5% 1/4W
R046	1-249-435-11	CARBON	33K 5% 1/4W	R519	1-249-433-11	CARBON	22K 5% 1/4W
R047	1-249-429-11	CARBON	10K 5% 1/4W	R520	1-249-411-11	CARBON	330 5% 1/4W
R048	1-249-429-11	CARBON	10K 5% 1/4W	R521	1-249-405-11	CARBON	100 5% 1/4W
R049	1-249-429-11	CARBON	10K 5% 1/4W	R522	1-215-469-00	METAL OXIDE	100K 1% 1/6W
R050	1-249-426-11	CARBON	5.6K 5% 1/4W	R523	1-249-417-11	CARBON	1K 5% 1/4W
R051	1-249-413-11	CARBON	470 5% 1/4W	R524	1-249-421-11	CARBON	2.2K 5% 1/4W
R052	1-249-417-11	CARBON	1K 5% 1/4W	R526	1-249-409-11	CARBON	220 5% 1/4W F
R053	1-249-417-11	CARBON	1K 5% 1/4W	R527	1-249-431-11	CARBON	15K 5% 1/4W
R054	1-249-417-11	CARBON	1K 5% 1/4W	R528	1-249-408-11	CARBON	180 5% 1/4W
R055	1-249-411-11	CARBON	330 5% 1/4W	R529	1-249-427-11	CARBON	6.8K 5% 1/4W
R056	1-249-405-11	CARBON	100 5% 1/4W	R530	1-249-448-11	CARBON	1.2 5% 1/4W F
R057	1-249-409-11	CARBON	220 5% 1/4W	R531	1-247-881-00	CARBON	120K 5% 1/4W
R058	1-249-424-11	CARBON	3.9K 5% 1/4W	R532	1-249-417-11	CARBON	1K 5% 1/4W
R059	1-249-417-11	CARBON	1K 5% 1/4W	R534	1-247-901-11	CARBON	820K 5% 1/4W
R060	1-249-417-11	CARBON	1K 5% 1/4W	R535	1-249-749-00	CARBON	2.2M 5% 1/4W
R061	1-249-417-11	CARBON	1K 5% 1/4W	R536	1-249-749-00	CARBON	2.2M 5% 1/4W
R062	1-249-417-11	CARBON	1K 5% 1/4W	R537	1-249-434-11	CARBON	27K 5% 1/4W
R063	1-249-417-11	CARBON	1K 5% 1/4W	R538	1-247-883-00	CARBON	150K 5% 1/4W
R064	1-249-417-11	CARBON	1K 5% 1/4W	R539	1-247-883-00	CARBON	150K 5% 1/4W
R065	1-249-417-11	CARBON	1K 5% 1/4W	R540	1-249-399-11	CARBON	33 5% 1/4W
R066	1-249-417-11	CARBON	1K 5% 1/4W	R541	1-249-438-11	CARBON	56K 5% 1/4W
R067	1-249-417-11	CARBON	1K 5% 1/4W	R542	1-249-389-11	CARBON	4.7 5% 1/4W
R068	1-249-417-11	CARBON	1K 5% 1/4W	R543	1-249-451-11	CARBON	2.2 5% 1/4W
R069	1-249-417-11	CARBON	1K 5% 1/4W	R544	1-247-745-11	CARBON	330 5% 1/2W
R070	1-249-417-11	CARBON	1K 5% 1/4W	R545	1-249-433-11	CARBON	22K 5% 1/4W
R071	1-249-417-11	CARBON	1K 5% 1/4W	R546	1-249-434-11	CARBON	27K 5% 1/4W
R072	1-249-417-11	CARBON	1K 5% 1/4W	R547	1-249-423-11	CARBON	3.3K 5% 1/4W
R073	1-249-417-11	CARBON	1K 5% 1/4W	R548	1-216-349-00	METAL OXIDE	1 5% 1W 2W F
R074	1-249-425-11	CARBON	4.7K 5% 1/4W	R549	1-216-454-11	METAL OXIDE	390 5% 2W F
R075	1-249-409-11	CARBON	220 5% 1/4W	R550	1-249-440-11	CARBON	82K 5% 1/4W
R251	1-249-425-11	CARBON	4.7K 5% 1/4W	R551	1-249-749-00	CARBON	2.2M 5% 1/4W
R252	1-249-412-11	CARBON	390 5% 1/4W	R553	1-216-869-11	METAL OXIDE	1K 5% 1W
R253	1-249-429-11	CARBON	10K 5% 1/4W				

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

D VM

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

VM H1 H2 Y

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R756	1-249-419-11	CARBON	1.5K 5% 1/4W								
R757	1-249-405-11	CARBON	100 5% 1/4W								
R758	1-249-409-11	CARBON	220 5% 1/4W								
R760	1-249-411-11	CARBON	330 5% 1/4W								
R761	1-249-429-11	CARBON	10K 5% 1/4W								
R762	1-247-895-00	CARBON	470K 5% 1/4W								
R763	1-249-429-11	CARBON	10K 5% 1/4W								
R764	1-249-455-11	CARBON	4.7 5% 1/4W F								
R765	1-249-455-11	CARBON	4.7 5% 1/4W F								
R766	1-247-753-11	CARBON	1.2K 5% 1/2W								
R767	1-247-751-11	CARBON	820 5% 1/2W								
R768	1-215-887-00	METAL OXIDE	150 5% 2W F								
R769	1-212-889-00	FUSIBLE	220 5% 1/4W F								
R770	A 1-212-936-51	FUSIBLE	1.2 5% 1/2W F								

*1-631-220-11 H1 BOARD				*****							

1-562-837-11 JACK											
*1-564-512-11 PLUG, CONNECTOR 9P											
1-568-678-11 TERMINAL BLOCK, S 3P											
*1-568-878-51 PIN, CONNECTOR 3P											
*1-568-879-51 PIN, CONNECTOR 4P											
*1-568-879-61 PIN, CONNECTOR 4P											
<RESISTOR>											
R1651	1-249-413-11	CARBON	470 5% 1/4W								
R1652	1-249-413-11	CARBON	470 5% 1/4W								
<SWITCH>											
S1651	1-571-532-21	SWITCH, TACTIL									
S1652	1-571-532-21	SWITCH, TACTIL									
S1653	1-571-532-21	SWITCH, TACTIL									

*1-631-221-11 H2 BOARD				*****							

*1-568-882-51 PIN, CONNECTOR 7P											
*4-374-987-01 GUIDE, LIGHT											
*4-381-686-01 BRACKET (B), LIGHT GUIDE											
<DIODE>											
D1651	8-719-311-89	DIODE SEL1222R-C									
*4-387-801-01 HOLDER, LED; D1651											
D1652	8-719-311-89	DIODE SEL1222R-C									
*4-387-801-01 HOLDER, LED; D1652											
D1653	8-719-311-89	DIODE SEL1222R-C									
*4-387-801-01 HOLDER, LED; D1653											
D1654	8-719-948-31	DIODE LD-201VR									
*4-387-825-02 HOLDER, LED; D1654											
<IC>											
IC1651	8-741-138-70	IC BX-1387									
<RESISTOR>											
R1661	1-249-413-11	CARBON	470 5% 1/4W								
R1662	1-249-413-11	CARBON	470 5% 1/4W								
<RESISTOR>											
R1701	1-215-860-11	METAL OXIDE	33 5% 1W								
R1702	1-249-425-11	CARBON	4.7K 5% 1/4W								
R1703	1-249-434-11	CARBON	27K 5% 1/4W								
R1704	1-249-425-11	CARBON	4.7K 5% 1/4W								
R1705	1-249-426-11	CARBON	5.6K 5% 1/4W								
R1706	1-249-427-11	CARBON	6.8K 5% 1/4W								
R1707	1-249-429-11	CARBON	10K 5% 1/4W								
R1708	1-249-429-11	CARBON	10K 5% 1/4W								
R1710	1-249-433-11	CARBON	22K 5% 1/4W								
R1711	1-249-438-11	CARBON	56K 5% 1/4W								
R1712	1-249-413-11	CARBON	470 5% 1/4W								
R1713	1-249-414-11	CARBON	560 5% 1/4W								
R1714	1-249-417-11	CARBON	1K 5% 1/4W								
R1717	1-249-417-11	CARBON	1K 5% 1/4W								
R1718	1-249-417-11	CARBON	1K 5% 1/4W								
R1723	1-249-415-11	CARBON	680 5% 1/4W								

J1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
*A-1651-001-A	J1 BOARD, COMPLETE		*****	C1428	1-136-017-00	CERAMIC CHIP 0.0047MF	50V				
1-561-534-41	SOCKET 21P			C1429	1-136-017-00	CERAMIC CHIP 0.0047MF	50V				
*1-564-518-11	PLUG, CONNECTOR 3P			C1430	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
*1-564-524-11	PLUG, CONNECTOR 9P			C1431	1-126-529-11	ELECT 0.47MF	20% 50V				
*1-564-527-11	PLUG, CONNECTOR 12P			C1432	1-124-902-00	ELECT 0.47MF	20% 50V				
*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			C1433	1-124-122-11	ELECT 100MF	20% 50V				
<CAPACITOR>											
C203	1-124-925-11	ELECT 2.2MF	20% 50V	C1436	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C205	1-124-927-11	ELECT 4.7MF	20% 50V	C1437	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C206	1-124-925-11	ELECT 2.2MF	20% 50V	C1438	1-106-367-00	MYLAR 0.01MF	10% 400V				
C207	1-124-927-11	ELECT 4.7MF	20% 50V	C1439	1-106-367-00	MYLAR 0.01MF	10% 400V				
C213	1-126-233-11	ELECT 22MF	20% 50V	C1440	1-123-875-11	ELECT 10MF	20% 50V				
C214	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1441	1-123-875-11	ELECT 10MF	20% 50V				
C217	1-106-363-00	MYLAR 0.0068MF	10% 400V	C1442	1-124-910-11	ELECT 47MF	20% 50V				
C218	1-106-375-12	MYLAR 0.022MF	10% 250V	C1443	1-124-910-11	ELECT 47MF	20% 50V				
C219	1-106-375-12	MYLAR 0.022MF	10% 250V	C1444	1-124-910-11	ELECT 47MF	20% 50V				
C220	1-108-620-11	MYLAR 0.0033MF	10% 100V	C1445	1-102-824-00	CERAMIC 470PF	5% 50V				
C221	1-108-620-11	MYLAR 0.0033MF	10% 100V	C1446	1-102-824-00	CERAMIC 470PF	5% 50V				
C222	1-106-385-00	MYLAR 0.056MF	10% 100V	C1501	1-123-875-11	ELECT 10MF	20% 50V				
C223	1-106-385-00	MYLAR 0.056MF	10% 100V	C1502	1-123-875-11	ELECT 10MF	20% 50V				
C224	1-106-367-00	MYLAR 0.01MF	10% 400V	C1503	1-108-614-11	MYLAR 0.001MF	10% 100V				
C225	1-136-173-00	FILM 0.47MF	5% 50V	C1504	1-124-910-11	ELECT 47MF	20% 50V				
C226	1-136-173-00	FILM 0.47MF	5% 50V	C1505	1-106-383-00	MYLAR 0.047MF	10% 100V				
C227	1-106-375-12	MYLAR 0.022MF	10% 250V	C1507	1-108-620-11	MYLAR 0.0033MF	10% 100V				
C228	1-106-379-12	MYLAR 0.033MF	10% 250V	C1508	1-123-875-11	ELECT 10MF	20% 50V				
C229	1-106-371-00	MYLAR 0.015MF	10% 400V	<CONNECTOR>							
C230	1-106-371-00	MYLAR 0.015MF	10% 400V	CN1401	1-565-838-11	PIN JACK BLOCK 2P					
C231	1-124-902-00	ELECT 0.47MF	20% 50V	<DIODE>							
C232	1-123-875-11	ELECT 10MF	20% 50V	D201	8-719-110-14	DIODE RD9.1ES-B3					
C233	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	D202	8-719-110-14	DIODE RD9.1ES-B3					
C234	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	D205	8-719-110-04	DIODE RD7.5ES-B3					
C235	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	D206	8-719-110-04	DIODE RD7.5ES-B3					
C236	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	D1401	8-719-110-04	DIODE RD7.5ES-B3					
C237	1-124-902-00	ELECT 0.47MF	20% 50V	D1403	8-719-110-04	DIODE RD7.5ES-B3					
C238	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D1404	8-719-110-04	DIODE RD7.5ES-B3					
C239	1-126-103-11	ELECT 470MF	20% 16V	D1405	8-719-110-04	DIODE RD7.5ES-B3					
C2401	1-123-875-11	ELECT 10MF	20% 50V	D1406	8-719-110-04	DIODE RD7.5ES-B3					
C1402	1-126-103-11	ELECT 470MF	20% 16V	D1407	8-719-110-18	DIODE RD10ES-B3					
C1403	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1408	8-719-110-14	DIODE RD9.1ES-B3					
C1404	1-124-902-00	ELECT 0.47MF	20% 50V	D1409	8-719-110-14	DIODE RD9.1ES-B3					
C1405	1-136-017-00	CERAMIC CHIP 0.0047MF	50V	D1410	8-719-110-14	DIODE RD9.1ES-B3					
C1406	1-124-902-00	ELECT 0.47MF	20% 50V	D1415	8-719-110-04	DIODE RD7.5ES-B3					
C1407	1-124-910-11	ELECT 47MF	20% 50V	D1418	8-719-110-04	DIODE RD7.5ES-B3					
C1408	1-124-122-11	ELECT 100MF	20% 50V	D1419	8-719-110-04	DIODE RD7.5ES-B3					
C1409	1-126-233-11	ELECT 22MF	20% 50V	D1420	8-719-110-04	DIODE RD7.5ES-B3					
C1410	1-123-875-11	ELECT 10MF	20% 50V	D1421	8-719-110-04	DIODE RD7.5ES-B3					
C1411	1-123-875-11	ELECT 10MF	20% 50V	D1422	8-719-110-04	DIODE RD7.5ES-B3					
C1412	1-124-910-11	ELECT 47MF	20% 50V	D1423	8-719-110-04	DIODE RD7.5ES-B3					
C1413	1-124-910-11	ELECT 47MF	20% 50V	D1424	8-719-110-04	DIODE RD7.5ES-B3					
C1414	1-123-875-11	ELECT 10MF	20% 50V	D1425	8-719-110-04	DIODE RD7.5ES-B3					
C1415	1-124-902-00	ELECT 0.47MF	20% 50V	D1426	8-719-110-04	DIODE RD7.5ES-B3					
C1416	1-124-902-00	ELECT 0.47MF	20% 50V	D1501	8-719-300-33	DIODE RU-3AM					
C1417	1-124-120-11	ELECT 220MF	20% 16V	D1502	8-719-911-19	DIODE ISS119					
C1418	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1503	8-719-911-19	DIODE ISS119					
C1419	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1504	8-719-911-19	DIODE ISS119					
C1420	1-124-902-00	ELECT 0.47MF	20% 50V	D1505	8-719-911-19	DIODE ISS119					
C1421	1-124-902-00	ELECT 0.47MF	20% 50V	D1506	8-719-110-85	DIODE RD36ES-B4					
C1422	1-124-902-00	ELECT 0.47MF	20% 50V	D1507	8-719-911-19	DIODE ISS119					
C1427	1-136-017-00	CERAMIC CHIP 0.0047MF	50V								

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1510	8-719-911-19	DIODE 1SS119		R1410	1-216-089-00	METAL GLAZE	47K 5% 1/10W
		<IC>		R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W
IC201	8-759-013-17	IC TDA6200		R1412	1-216-089-00	METAL GLAZE	47K 5% 1/10W
IC1401	8-752-032-27	IC CXA1114P		R1413	1-216-113-00	METAL GLAZE	470K 5% 1/10W
IC1402	8-759-946-32	IC TEA2014A		R1414	1-216-089-00	METAL GLAZE	47K 5% 1/10W
IC1403	8-759-240-53	IC TC4053BP		R1415	1-216-083-00	METAL GLAZE	27K 5% 1/10W
IC1501	8-759-942-16	IC TEA2031A		R1416	1-216-083-00	METAL GLAZE	27K 5% 1/10W
		<TRANSISTOR>		R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W
Q201	8-729-271-22	TRANSISTOR 2SC2712-G		R1418	1-247-738-11	CARBON	82 5% 1/2W F
Q202	8-729-271-22	TRANSISTOR 2SC2712-G		R1422	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R1423	1-216-083-00	METAL GLAZE	27K 5% 1/10W
Q1402	8-729-271-22	TRANSISTOR 2SC2712-G		R1424	1-216-083-00	METAL GLAZE	27K 5% 1/10W
Q1403	8-729-271-22	TRANSISTOR 2SC2712-G					
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G		R1425	1-216-049-00	METAL GLAZE	1K 5% 1/10W
		<RESISTOR>		R1426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R201	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1427	1-216-001-00	METAL GLAZE	10 5% 1/10W
R202	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R203	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R204	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1430	1-216-170-00	METAL GLAZE	68 5% 1/8W
R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1431	1-216-190-00	METAL GLAZE	470 5% 1/8W
R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1432	1-216-190-00	METAL GLAZE	470 5% 1/8W
R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W
R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1434	1-249-393-11	CARBON	10 5% 1/4W F
R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1437	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1440	1-216-045-00	METAL GLAZE	680 5% 1/10W
R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1441	1-216-045-00	METAL GLAZE	680 5% 1/10W
R214	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1442	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1443	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1444	1-216-033-00	METAL GLAZE	220 5% 1/10W
R218	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1445	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1446	1-216-033-00	METAL GLAZE	220 5% 1/10W
R220	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1447	1-216-033-00	METAL GLAZE	220 5% 1/10W
R221	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1448	1-216-025-00	METAL GLAZE	100 5% 1/10W
R222	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1452	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1453	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1454	1-216-180-00	METAL GLAZE	180 5% 1/8W
R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1455	1-216-180-00	METAL GLAZE	180 5% 1/8W
R227	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1457	1-216-025-00	METAL GLAZE	100 5% 1/10W
R228	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1459	1-216-025-00	METAL GLAZE	100 5% 1/10W
R230	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1460	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1461	1-216-190-00	METAL GLAZE	470 5% 1/8W
R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1462	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1463	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R240	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1464	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1401	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1465	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1402	1-216-170-00	METAL GLAZE	68 5% 1/8W	R1466	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1403	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1467	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1404	1-216-178-00	METAL GLAZE	150 5% 1/8W	R1468	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1405	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1407	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1469	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1408	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1470	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1409	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1471	1-216-023-00	METAL GLAZE	82 5% 1/10W
				R1472	1-216-023-00	METAL GLAZE	82 5% 1/10W
				R1473	1-216-023-00	METAL GLAZE	82 5% 1/10W
				R1474	1-216-113-00	METAL GLAZE	470K 5% 1/10W
				R1476	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R1477	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R1478	1-216-113-00	METAL GLAZE	470K 5% 1/10W
				R1480	1-216-190-00	METAL GLAZE	470 5% 1/8W
				R1482	1-216-178-00	METAL GLAZE	150 5% 1/8W
				R1483	1-216-178-00	METAL GLAZE	150 5% 1/8W
				R1484	1-216-073-00	METAL GLAZE	10K 5% 1/10W
				R1485	1-216-073-00	METAL GLAZE	10K 5% 1/10W
				R1486	1-216-073-00	METAL GLAZE	10K 5% 1/10W
				R1487	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

J1 J2

REF.NO.	PART NO.	DESCRIPTION	REMARK	
R1488	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R1489	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R1501	1-216-081-00	METAL GLAZE	22K 5%	1/10W
R1502	1-216-083-00	METAL GLAZE	27K 5%	1/10W
R1503	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R1504	1-216-085-00	METAL GLAZE	33K 5%	1/10W
R1505	1-216-081-00	METAL GLAZE	22K 5%	1/10W
R1506	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R1509	1-216-105-00	METAL GLAZE	220K 5%	1/10W
R1510	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W
R1511	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R1512	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R1513	1-216-091-00	METAL GLAZE	56K 5%	1/10W
R1514	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R1516	1-216-079-00	METAL GLAZE	18K 5%	1/10W
R1517	1-216-033-00	METAL GLAZE	220 5%	1/10W
R1519	1-216-101-00	METAL GLAZE	150K 5%	1/10W
R1520	1-216-111-00	METAL GLAZE	390K 5%	1/10W
R1521	1-216-214-00	METAL GLAZE	4.7K 5%	1/8W
R1550 Δ 1-213-036-11	FUSIBLE	1	5%	1W F
R1556	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W
<VARIABLE RESISTOR>				
RV1501	1-238-023-11	RES. ADJ. CARBON	470K	
RV1502	1-228-994-00	RES. ADJ. CARBON	10K	
RV1503	1-238-017-11	RES. ADJ. CARBON	22K	
RV1504	1-238-012-11	RES. ADJ. CARBON	1K	
RV1505	1-238-023-11	RES. ADJ. CARBON	470K	
RV1506	1-238-017-11	RES. ADJ. CARBON	22K	
RV1507	1-238-009-11	RES. ADJ. CARBON	220	
RV1508	1-238-016-11	RES. ADJ. CARBON	10K	
RV1509	1-238-023-11	RES. ADJ. CARBON	470K	

*1-631-222-11	J2 BOARD			*****
*1-537-088-21	TERMINAL BOARD, INPUT/OUTPUT			
*1-564-517-11	PLUG, CONNECTOR 2P			
*1-564-519-11	PLUG, CONNECTOR 4P			
<CAPACITOR>				
C1751	1-101-005-00	CERAMIC	0.022MF	50V
C1752	1-101-005-00	CERAMIC	0.022MF	50V
C1755	1-102-114-00	CERAMIC	470PF	10% 50V
C1756	1-102-114-00	CERAMIC	470PF	10% 50V
<COIL>				
L1751	1-412-240-11	INDUCTOR, WIDE BAND		
L1752	1-412-240-11	INDUCTOR, WIDE BAND		

MISCELLANEOUS				

Δ .1-426-398-11	COIL, DEMAGNETIZATION			
Δ .1-451-313-22	DEFLECTION YOKE (Y29FXA)			
1-452-032-00	MAGNET, DISK; 10MM ϕ			
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ			
Δ .1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)			
Δ .1-575-487-11	CORD, POWER (WITH NOISE FILTER)			
V901 Δ .8-733-821-05	PICTURE TUBE (A68JYK10X)			

KV-D2921D
RM-689

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TV Group

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